SURVEYING INSTRUMENTS



# SET1010•SET2010 SET3010•SET4010 POWERSET SERIES TOTAL STATIONS

Award-Winning Total Stations with Proven Power and More Memory



# THE POWERSET SERIES **PROVEN POWER AND MORE MEMORY**

#### Enjoy the benefits of proven total station technology with Sokkia's renown SDR software

With the integration of corrective hardware sensors, self-collimating software and the most powerful, easy-to-use field application programming ever, SOKKIA introduces a new era in CAS (Computer Aided Surveying) with the POWERSET Series.

The POWERSET Series continues to offer the highest standard in surveying efficiency with: An extensive range of popular easy-to-use surveying software (version 4.2). A larger internal memory for software and data storage. Reliable memory cards for greater storage of survey data.

Entirely new design features a miniaturized telescope unit that makes sighting as easy as using a theodolite. Thanks to the POWERSET Series' advanced optics, you can use reflective sheet targets and standard glass prisms for greater flexibility in the field.

The dual-axis compensator and collimation program ensure consistently accurate measurements.

The POWERSET Series is designed for maximum ease of use. Large screens on each side of the instrument are easy to read in any field conditions, and the keyboards on both faces feature full alphanumeric keys.

These advanced functions are packed into an incredibly compact instrument weighing a mere 5.4kg (11.9 lbs.)

Dist. meas. with reflecting prism Dist. meas. with reflective sheet target Angle measurement

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#### SET1010/SET2010

Range: 3,500m (11,400ft.)\* Range: 120m (390ft.)\*\*\* Display resolution: 0.5"/0.1 mgon or 1"/0.2mgon

#### SET3010

Range: 3,300m (10,800ft.)\* Range: 100m (320ft.)\*\*\* Display resolution: 1"/0.2mgon or 5"/1 mgon

#### SET4010

Range: 2,400m (7,800ft.)\* Range: 80m (260ft.)\*\*\* Display resolution: 5"/1mgon or 10"/2mgon Accuracy: 5"(1.5mgon) \*With 3 reflecting prisms under good weather conditions. \*\*D: measuring distance, unit: mm \*\*\*With reflective sheet target RS9ON (90 x 90 mm) •The SET1010 is made only on order.

Accuracy: ±(2+2ppmxD)mm\*\* Accuracy: ±(4+3ppmxD)mm\*\* Accuracy: SET1010 1"(0.3mgon) SET2010 2"(0.6mgon)

Accuracy: ±(2+2ppmxD)mm\*\* Accuracy: ±(4+3ppmxD)mm\*\* Accuracy: 3" (1 mgon)

Accuracy: ±(2+2ppmxD)mm\*\* Accuracy: ±(4+3ppmxD)mm\*\*

# Accurate, Reliable and Sophisticated Technology in an Ultra-Light Body

SIGHTING PERFORMANCE

Sokkia's proven mechanical, optical and electronic technologies are embodied in the POWERSET Series within the ultra-light body weighing only 5.4 kg/11.9 lb. The award-winning POWERSET series is one of the most sophisticated total stations ever developed.





The POWERSET Series total stations are extremely light, weighing a mere 5.4 kg / 11.9 lb. - including tribrach, handle and battery. Carrying the instrument is no longer an arduous task.

#### Miniaturized Telescope

The compact telescope considerably eases the sighting of targets compared with the bulky telescope usually encountered in conventional total stations. This benefit is especially appreciated by the surveyor wearing a hardhat. The offset between the peep sight and telescope is minimized, so the short-range sighting is easier and faster.



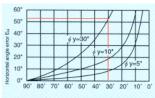
#### Two-Speed Controls

All rotating knobs, such as the telescope focusing ring and the vertical and horizontal fine motion screws, rotate at two speeds for fine and coarse control. These knobs are coated with durable non-slip rubber to give a comfortable and sure grip.

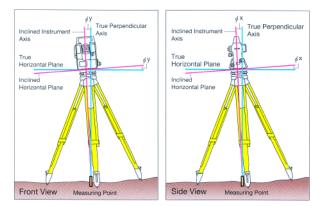
# Simultaneous Automatic Compensation for the Vertical, Horizontal and Sighting Axes

Since it was first introduced with the Series C total stations in 1989, Sokkia's dualaxis compensator has proven its reliability and accuracy at survey sites all over the world. Deviations of both the X and Y axes are monitored by the dual-axis tilt sensor,

sighting axes.



Horizontal Zenith angle Z Zenith \$\overline Y (inclination to the right or left) The magnitude of inclination is 5°, 10°, 30° as indicated above. and corrections for horizontal and vertical angle readings are automatically computed and applied. This makes levelling of the instrument easier and less time-consuming. The collimation function automatically corrects the deviations of the horizontal, vertical and



### Micro-Prism Reflective Sheet Targets make Routine Surveying Easier and Provide Simple Solutions in Demanding Situations

**REFLECTIVE SHEET TARGETS** 

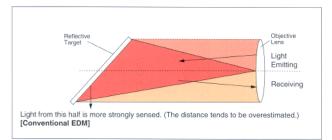
With the POWERSET Series total stations you have the option of measuring distances with Sokkia's innovative reflective sheet targets as well as with conventional glass prisms. Reflective sheet targets are far less expensive than glass prisms and can be quickly and easily set up in locations where glass prisms cannot.

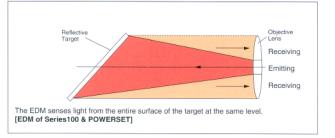


# ■Unique EDM designed for use with both reflective sheet targets and glass prisms.

Conventional EDM's rely on vertical or horizontal partitioning of the lens, of which one half is used as the light emitter and the other half as the light receiver. This design works well with glass prisms, but it does not accommodate reflective sheet targets. When measuring the sheet targets, inclination of the sheet (setup angle) causes variations in the returned light that render measurement either impossible or erroneous. The POWERSET Series incorporates an innovative optical system in which the central portion of the objective lens acts as the light emitter and the surrounding portion acts as the receiver. With this system, errors introduced by inclination of the target are obviated (providing it is set within +30°) resulting in measurements accurate to  $\pm$ (4+3ppm x D)mm\*. With glass prisms, the POWERSET can measure the distance with an accuracy of  $+(2+2ppm \times D)mm^*$ .

\*D:measuring distance, unit:mm





#### Measuring Ranges

	Size	Measuring distance (when targets face in right angle)				
Model	(mm)	SET1010/2010	SET3010	SET4010		
RS10N	10x10	1m~40m	1m~30m	1m~25m		
RS50N	50x50	1m~90m	1m~80m	1m~60m		
RS90N	90x90	1m~ 120m	1m~100m	1m~80m		



#### ■A variety of reflective sheet targets provide solutions for tricky survey situations which would have proven difficult or impossible

difficult or impossible.

Prism constant of all the reflective targets is "0".

#### RS series Reflective Sheets

These 0.4 mm thick, self-adhesive sheets adhere at a touch to almost any dry surface.

Boldness of cross hair line	Normal	Thin	Plain (no lines)
5 x 5 mm	-	RS05T	-
10 x 10 mm	RS10N	RS10T	-
15 x 15 mm	RS15N	RS15T	-
20 x 20 mm	RS20N	RS20T	-
30 x 30 mm	RS30N	RS30T	-
50 x 50 mm	RS50N	-	-
70 x 70 mm	RS70N	-	-
90 x 90 mm	RS90N	-	-
230 x 230 mm	-	-	RS00

#### Detachable Rotary Target RT9OC



A 90 x 90 mm, 360° rotating sheet target, the RT90C can be mounted on a tribrach with the AP41 adapter, or mounted directly to prism pole AP61.

#### •Grip Anchor Targets RT30G10 · RT50G10 · RT9OG10

Fully rotative targets with 10 mm dia. male screws. They can be mounted in M10 female bolt holes. The RT30G10 is 30 x 30 mm, RT50G10 is 50 x 50 mm, and RT90G10 is 90 x 90 mm.

RS30T

RS20T

RS15T

RS10T

RS05T

RS90N

RS70N

RS50N

RS30N

RS20N

RS15N

RS10N

#### •Pin Pole Target RT50P



A 50 x 50 mm, 360° rotating sheet target the RT50P can be connected to narrow pin poles.

#### •Magnetic Rotary Targets RT50M · RT9OM

Incorporating a powerful magnet base, these targets can be mounted on a magnetic steel surface in seconds. Full 360° rotation. The RT50M is 50 x 50 mm, RT90M is 90 x 90 mm.



#### •Two-Point Target 2RT500



For the measurement of hidden points. The distance between the two targets is 500 mm, and the total length can be extended by adding poles. The measuring range is the same as for a 50 x 50 mm sheet target. 2RT500

#### Reflective Staff RF3

A levelling staff with a special reflective surface. Very quick to sight, for horizontal angle and horizontal distance applications. It can also be used as a normal levelling staff for reading heights.

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### Full Alphanumeric Keyboards and Easy-to-Read **Displays are Provided on Both Faces**

**OPERABILITY** 

Only alphanumeric keyboards can offer such ease of data input, and the large displays provide certain confirmation at a glance. Rechargeable batteries (two supplied) provide enough power for a full day's work and can be charged in just over an hour.

#### Two Displays and Full Alphanumeric **Keyboards for Easy and Sure Operation**

Even with a wide variety of functions, operation is remarkably easy thanks to the POWERSET's large displays and alphanumeric keyboards. The 8-line. 20-character screens display alphanumeric data. They allow at-a-glance confirmation of a large volume of data, such as point number, point name, 3-D coordinate values, mode set, and much more. A gr "bull's-eye"level is also provided for optimum efficiency.

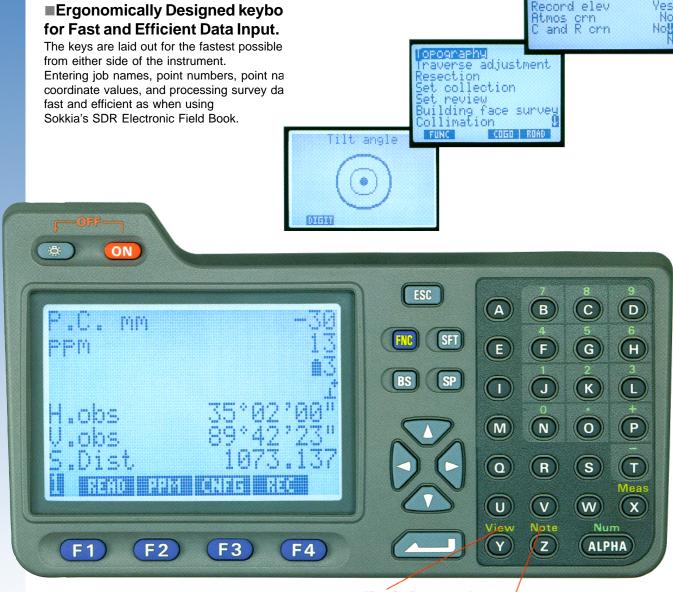
# Ergonomically Designed keybo

#### ■Large, Easy-to-Read LCD Displays(20 characters, 8 lines)

Non-glare glass and backlighting ensure comfortable reading. Plus, displays operate in a wide range of temperatures without power- consuming display heaters.

Point

Id Numeric



View: Confirm or search for the recorded data at any time. Note: Input notes at any time.

#### ■Nickel-Metal Hydride Battery

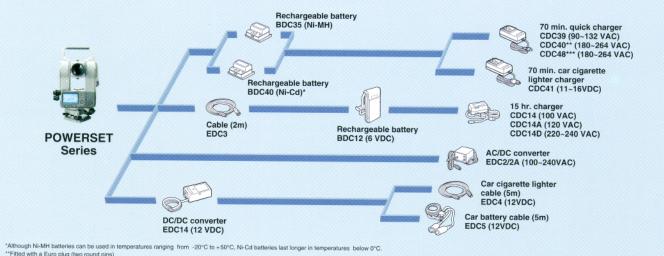
The rechargeable Ni-MH battery lasts about 32%\* longer than conventional Ni-Cd batteries. When fully charged, battery life is about 4.5 hours, or approximately 500 measurements.\*\* As two batteries are provided as standard equipment, the POWERSET Series can be operated for a total of 9 hours - more than enough for an average day's work. Recharging takes only 70 minutes or less, making it easy to prepare for the next day's tasks.

\* Sokkia's tests

\*\* In the Fine and Single measurement modes at measurement intervals of 30 seconds.







\*\*Fitted with a Euro plug (two round pins) \*\*\*Australian type

### Larger Internal Memory Provides Rapid Processing of Surveying Data

RECORDABILITY

High processing speed and secure storage are provided by an increased internal memory with the unlimited storage capacity of multiple memory cards. Handling of data - from the field to the office or from the office to the field - is easy and efficient.



#### ■POWERSET Internal Memory Increased to 512KB



The processing speed of measured data has a dramatic effect on on-site efficiency. The POWERSET Series combines a 512K internal memory (approx. 4800 points) with memory cards to ensure efficient measurement and storage of data. The internal memory has been increased to double that of the original POWERSET Series to store and rapidly process more data, and the popular non-contact memory cards can also be used to provide fast and reliable backup, transfer,

and storage of measured data. Since the card is not accessed each time a measurement is performed, the processing speed is maximized. Recorded data is automatically time-stamped for management records and productivity analysis. Stored data can also be efficiently transferred to a PC for further processing.

#### ■Waterproof, Dustproof Memory Cards



#### Three memory card sizes are available:

- 128KB SDC5 (about 1200 points\*, supplied as standard),
- 256KB SDC6 (about 2400 points\*),
- 512KB SDC8 (about 4800 points\*).

When using multiple cards, the storage capacity is practically limitless. The cards can be sent one at a time to the office for processing, and can then be loaded with coordinate data for the next stake-out project. They make data handling more flexible and increase efficiency. Because the data is accessed using a non-contact magnetic coupling system, the cards have no metallic connectors, which can be prone to corrode and wear failure. They are also water and dust proof \*\* and will effectively protect your valuable data from contact faults caused by water, oil, dirt, finger prints, static electricity, etc. Since they are resistant to falls, shocks and bending, they can be safely used in unfavorable surveying environments.

\*When using four digit point numbers.

\*\*Degree of protection against water: protected against splashing water as defined by IEC Standard Class IPX4

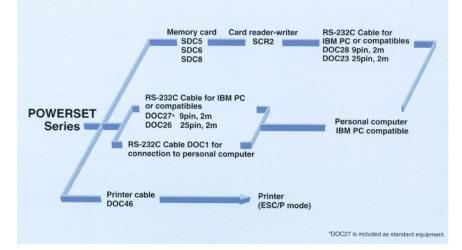




#### Direct Data Output to Computer and Printer

With the standard equipment DOC27 serial cable, connect your POWERSET to a computer for easy data transfer and convenient storage. Moreover, you can send survey data directly from the POWERSET to a printer via the optional DOC46 cable. Use any printer with a parallel port which is compatible with the ESC/P mode. The POWERSET sends formatted reports, starting a new page for each job.

#### Communication System





### Powerset Total Stations Ship With Highly Functional Surveying Software Pre-Installed and ready for Use

VERSATILITY

With Sokkia's electronic field book functions and optional Expert Software, the POWERSET software provides versatility and extendability to meet the needs of the professional surveyor in a wide variety of surveying scenarios.



#### SOFTWARE

Sokkia's industry standard SDR33/31 Electronic Field Book functions have been integrated into the pre-installed POWERSET software for consistent and convenient operation. From the wide range of programs to the powerful Expert options, you can access exactly the software you need to handle your surveying projects efficiently.

#### Pre-installed Software

The following application software is preinstalled in the instrument's internal memory when it is shipped from the factory:

SURV	COGO	ROAD	
Topography	Set out coords	Cross-section survey	
Resection	Set out line		
Collimation	Resection		
Tilt offset	Traverse		
Remote elevation	Areas		
Keyboard input	Intersections		

#### Expert Software (Optional)

Topography
Traverse adjustment
Resection
Set collection Set review
Set review
Building face survey
Collimation 🔡
FUNC COIGD ROAD
A statistical data from the state of the sta

SURV	COGO	ROAD
Topography	Set out coords	Select road
Traverse adjustment	Set out line	Set out road
Resection	Set out arc	Set out road surface
Set collection		Road topo
Set review	Professional Positioning	Cross-section survey
Building face survey	Inverse	Define road
Collimation	Areas	Review road
Tilt offset	Intersections	Define template
Remote elevation	Point projection	Review template
Keyboard Input	Taping from baseline	
	Transformation	
	Keyboard input	

\*Professional Positioning is a program which calculates the coordinates of an unknown station based on observations to known target points. Statistical methods minimize, and in most cases eliminate, the adverse effects of outlying observations or blunders on the calculated position The operator need not be concerned about the mathematics behind the program and is not asked to provide additional information for these calculations. Once the results are given, the operator is able to trace any errors, such as mistaken target points, point displacement or incorrect measurements.

#### ■COMMS

Expert software comes with COMMS, a Windows- based communications program. COMMS, running on a PC, can send and receive SDR files (jobs, roads, templates and feature code libraries) to and from SDR devices (POWERSET, SDR33 or SDR31). Furthermore, COMMS can export SDR files in DXF, MOSS, ICS and SDMS formats. MOSS files can also be imported and converted to SDR files and transferred to a POWERSET, SDR33 or SDR31. (COMMS runs on Windows 3.1 and Windows 95)



# SOFTWARE FOR LAND SURVEYING

The POWERSETSeries provide you with integrated solutions for data collection and processing functions for your professional survey work. The application software supports complex field operations and reporting functions.

The **Topography** program helps increase data validity by automatically calculating and displaying the difference in observed positions. When a point is observed more than



once, you may choose to replace the old observation, store the new observation under a different point number, or average the two observations for more accurate results. Tolerances are selected by user defined settings. **Set Collection** lets you structure your traverse and network data collection procedures. A sophisticated set review mechanism allows you to scan the accumulated data with as much summary



or detail as you need. Differences and standard deviations are displayed. You can mark a "bad" set and recalculate. It may be re-marked as "good" and the original calculations restored. In all cases, the original data is maintained.

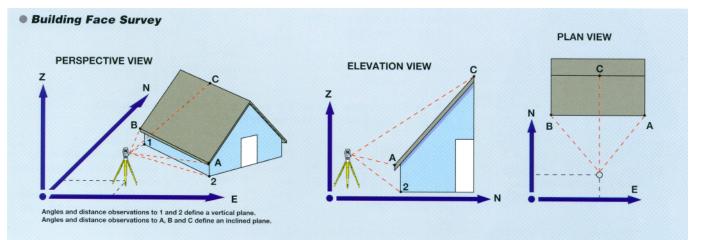
The *Building Face Survey* feature allows for the coordination of points in a defined vertical plane. Recessed and protruding



al plane. Recessed and protruding points may also be measured by entering an offset distance from the defined plane. The *Traverse Adjustment* feature can be used with traverse data **collected in either** *Set Collection* or **Topography.** 3-D traverse



data can be collected in any manner, including non-consecutive set-ups. The POWERSET does some of the thinking for you, like calculating precision and errors of closure, or adjusting traverse and angles or elevations.



#### Functions written in bold italics are supported oniv in the Expert software.. e.a. Set Collection

## COGO and Roading Software bring High Productivity to every Surveying Solution

FUNCTIONALITY

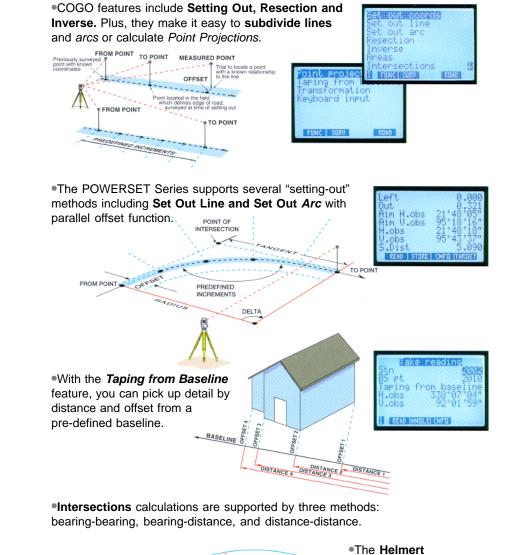
With the optional Expert Software' the COGO and Roading functions can be extended to provide a truly comprehensive software suite comfortably meeting the complex requirements of a wide range of modern civil and construction projects.



POWERSET

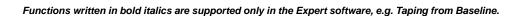
# SOFTWARE FOR COGO

The POWERSET Series offers a comprehensive suite of functions designed to make data collection, field calculations and stake-out work as fast and accurate as possible. The streamlined functions dramatically reduce your field time and increase your productivity.



DIST 2 DIST 1 POINT 2 POINT

Transformation option lets you rotate, translate and scale a survey while constraining to known points. This process uses the least squares method.



# SOFTWARE FOR ROADING

Roading is one of the functions which have made Sokkia's SDR Electronic Field Books so popular among surveyors. It is the comprehensive solution to field roading work.

 Roading is accomplished by loading or keying in the horizontal and vertical alignment and template information into the POWERSET. When you indicate what stationing and offset or coordinate point you wish to set out, the POWERSET will give you angles and distances to set out that point in 3-D. Horizontal and vertical offsets and checking of roads under construction are easily accomplished with this program.



•Set Out Road Surface gives cut and fill for any random point measured within the defined road alignment. This allows the marking of the vertical grades for items such as manholes and water valves, even if they were built in a position other than that shown on the drawing.

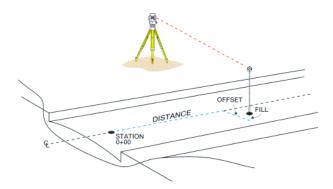
•Superelevation and widening parameters are user-defined. Left and right definitions and calculations are independent of each other. This allows easy stake-out of the most complicated road surfaces.

 Slope stakes can be located in the field by matching the existing ground with pre-entered side slope information.

•Vertical alignments support straight grades, circular curves and parabolic curves.

•Spiral curves can be defined for entering and exiting highway curves.

•Horizontal definitions can also be defined using string points.





Post

road out road surface

ross-section survey

out

Define road

pat. Road topo

# POWERSETSPECIFICATIONS

			SET1010/2010	SET3010	SET4010
elescope				ng and distance measuring optic	CS
Size (without peep sights)		L 165 x W 62 x H 80mm (6.5 x 2.5 x 3.2in.)			
Objective aperture		45mm (1.8in.) (EDM: 50mm (	2.0in.))		
Magnification		30x			
mage			Erect		
Resolving power			3"		
Field of view			1°30' (26 m/1,000 m)		
Minimum focus			1.0m (3.3ft.)		
Reticle illumination	1		Built-in (Bright/Dim, selectable	e)	
Focusing ring			Fine / Coarse two speeds		
Angle measureme	ent				
Jnit		H&V	360°/400gon / Quad brng / mi	l, selectable	
Display resolution	(selectable)	H&V	0.5" /0.1 mgon / 0.002mil	1"/0.2mgon/0.005mil	5" / 1 mgon / 0.02mil
	· · · ·		1"/ 0.2mgon / 0.005mil	5" / 1 mgon / 0.02mil	10" / 2mgon / 0.05mil
Accuracy		H&V	SET1010 1"(0.3mgon)	3"(1mgon)	5"(1.5mgon)
•	on of mean of a measurement		SET2010: 2"(0.6mgon)		e (nonigen)
	I and II, according to DIN18723)		6_:(e:e::ge:.)		
leasuring time		H&V	Less than 0.5 seconds. contir		
	s level compensator			ctable Display: Digital / Graph	ic selectable
	Type		Dual-axis liquid tilt sensor	elesio Biopiay. Digitar/ Oraph	, 0010010010
	Range		±3'/ (±55 mgon), out-of-range	warning displayed	
	Display resolution		According to selection of disp		
Collimation program			ON / OFF selectable		
Display mode		Н		, selectable; 0 set, angle setting	available
nopiay mode		V		al angle (Horizontal 0°), selecta	
Distance measure	amont	v		3 frequencies, Near infrared LE	
istance measure	ement		and receiving optics	S nequencies, Near Initared LE	D, Coaxial EDIVI transmit
leasuring range (	Slope distance) Atmospheri	c conditions		naze, visibility about 20km (12 m	niles) sunny periods
leasuning range (	Slope distance) Atmospheric	c contaitions	weak scintillation		liles), suriny perious,
			weak scinuliation		
				a concept on a sintillation.	
				visibility about 40km (25 miles),	overcast, no scintillation
			The range is achieved by usir	ng Sokkia's AP prism system,	
			The range is achieved by usir CP01 Compact prism and Re	ng Sokkia's AP prism system, flective sheet target RS90N (90	) x 90 mm).
	Reflective sheet target RS9ON		The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.)	x 90 mm). 1m to 80m (260ft.)
	Reflective sheet target RS9ON With CP01 compact prism	A. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90	) x 90 mm).
		A. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.)	0 x 90 mm). 1m to 80m (260ft.) 1m to 600m (1,900ft.) 1m to 1,600m(5,200ft.)
	With CP01 compact prism	Α.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.)	0 x 90 mm). 1m to 80m (260ft.) 1m to 600m (1,900ft.) 1m to 1,600m(5,200ft.)
	With CP01 compact prism	A. A. G. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.)	0 x 90 mm). 1m to 80m (260ft.) 1m to 600m (1,900ft.) 1m to 1,600m(5,200ft.)
	With CP01 compact prism With one AP01prism	A. A. G.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.)	0 x 90 mm). 1 m to 80m (260ft.) 1 m to 600m (1,900ft.) 1 m to 1,600m(5,200ft.) 1 m to 1,800m (5,900ft.)
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	With CP01 compact prism With one AP01prism With three AP01 prisms	A. A. G. A. G.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.)	rg Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,500m(11,400ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
Jnit	With CP01 compact prism With one AP01prism With three AP01 prisms	A. A. G. A. G. A. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.)	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms	A. A. G. A. G. A. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 1,800m (5,900ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
	With CP01 compact prism With one AP01prism With three AP01 prisms	A. A. G. A. G. A. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m	rg Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,500m(11,400ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement	A. A. G. A. G. A. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement	A. A. G. A. G. A. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 1,800m (5,900ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
Display resolution	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement	A. A. G. A. G. A. A.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
Display resolution	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)	A. A. G. A. G. A. G. A. G.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m (10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 9999.9999m (32,808.333ft.)	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 1,800m (5,900ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)
Display resolution Unambiguous mea Accuracy	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement	A. A. G. A. G. A. G. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m (10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 9999.9999m (32,808.333ft.) ±(2+2ppm x D)mm	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
Display resolution Jnambiguous mea Accuracy D=measuring	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with glass prism	A. A. G. A. G. A. G. Fine meas. Rapid meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m (10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft.) 0.001 m (0.01ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
Display resolution Jnambiguous mea Accuracy D=measuring listance,	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 3,700m (8,800ft.) 1m to 3,100m (10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 1,800m (5,900ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
Display resolution Jnambiguous mea Accuracy D=measuring listance, ınit: mm)	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with glass prism   with reflective sheet target	A. A. G. A. G. A. G. Fine meas. Rapid meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m (0.01ft.) 0.001 m (0.01ft.) 0.01m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft)	1m to 80m (260ft.)     1m to 600m (1,900ft.)     1m to 1,600m (5,200ft.)     1m to 1,800m (5,900ft.)     1m to 2,100m (6,800ft.)     1m to 2,400m (7,800ft.)     1m to 2,500m (8,200ft.)
Display resolution Jnambiguous mea Accuracy D=measuring listance, ınit: mm)	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with reflective sheet target   Fine meas. Single/repeat	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft.) 0.001 m (0.01ft.) 0.001 m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm Every 2.0 s (initial meas. 4.2 s	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m (5,200ft.)   1m to 1,800m (5,900ft.)   1m to 2,100m (6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m (8,200ft.)
Display resolution Unambiguous mea Accuracy D=measuring listance, init: mm)	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with glass prism   with reflective sheet target	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m (0.01ft.) 0.001 m (0.01ft.) 0.01m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m (5,200ft.)   1m to 1,800m (5,900ft.)   1m to 2,100m (6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m (8,200ft.)
Display resolution Inambiguous mea Accuracy D=measuring Iistance, nit: mm)	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with reflective sheet target   Fine meas. Single/repeat	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft.) 0.001 m (0.01ft.) 0.001 m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm Every 2.0 s (initial meas. 4.2 s	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m (5,200ft.)   1m to 1,800m (5,900ft.)   1m to 2,100m (6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m (8,200ft.)
Display resolution Jnambiguous mea Accuracy D=measuring listance, init: mm) Measuring time	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with reflective sheet target   Fine meas. Single/repeat   Rapid meas. Single/repeat	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft.) 0.001 m (0.01ft.) 0.001 m (0.01ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm Every 2.0 s (initial meas. 4.2 s Every 0.7 s (initial meas. 2.9 s	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Jnambiguous mea Accuracy D=measuring listance, init: mm) Measuring time	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with reflective sheet target   Fine meas. Single/repeat   Rapid meas. Single/repeat	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft.) 0.001 m (0.01ft.) 0.001 m (0.01ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm Every 2.0 s (initial meas. 4.2 s Every 0.7 s (initial meas. 2.9 s	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft) 99999.999m (32,808.33ft) s) s)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Jnambiguous mea Accuracy D=measuring listance, init: mm) Measuring time	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with reflective sheet target   Fine meas. Single/repeat   Rapid meas. Single/repeat	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Ref 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft.) 0.001 m (0.01ft.) 0.001 m (0.01ft.) 0.01m (0.1ft.) 9999.9999m (32,808.333ft.)) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm Every 2.0 s (initial meas. 4.2 s Every 0.7 s (initial meas. 2.9 s (1) Temperature/pressure inp	ng Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft) 99999.999m (32,808.33ft) s) s)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Jnambiguous mea Accuracy D=measuring distance, unit: mm) Measuring time	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   with glass prism   with reflective sheet target   Fine meas. Single/repeat   Rapid meas. Single/repeat   Tracking meas.   ction	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Ref 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft.) 0.001 m (0.01ft.) 0.001 m (0.01ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm Every 2.0 s (initial meas. 4.2 s Every 0.7 s (initial meas. 2.9 s (1) Temperature/pressure inp (4) w/o compensation, selectar -30°C to +60°C (1°C steps) / .	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft) 99999.999m (32,808.33ft) s) s) s) s) s) tt, (2) Temperature/pressure/huble -22°F to +140°F (1°F steps)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m(8,200ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Jnambiguous mea Accuracy D=measuring distance, unit: mm) Measuring time	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with reflective sheet target   Fine meas. Single/repeat   Rapid meas. Single/repeat   Tracking meas.   Ction	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 0.01m (0.01ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (0,005 s (initial meas. 4.2 s) Every 0.7 s (initial meas. 2.9 s) (1) Temperature/pressure inp (4) w/o compensation, selectar -30°C to +60°C (1°C steps) / 500hPa to 1400hPa (1 hPa st	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 9999.999m (32,808.33ft) 9999.999m (32,808.33ft) 3) 3) 3) 3) 4) 4) 5) 5) 5) 5) 5) 5) 5) 5) 5) 5) 5) 5) 5)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 1,800m (5,900ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Jnambiguous mea Accuracy D=measuring distance, unit: mm) Measuring time	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with glass prism   with reflective sheet target   Fine meas. Single/repeat   Rapid meas.   Tracking meas.   ction   Temperature input range   Pressure input range	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 0.01m (0.01ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm Every 2.0 s (initial meas. 4.2 s Every 0.7 s (initial meas. 2.9 s (1) Temperature/pressure inp (4) w/o compensation, selecta -30°C to +60°C (1°C steps) / 500hPa to 1400hPa (1 hPa st 14.8inchHg to 41.3inchHg (0.	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 9999.999m (32,808.33ft) 9999.999m (32,808.33ft) 9999.999m (32,808.33ft) 22°F to +140°F (1°F steps) eps), 375mmHg to 1050mmHg 1inchHg steps)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 1,800m (5,900ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Jnambiguous mea Accuracy D=measuring distance, unit: mm) Measuring time	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with reflective sheet target   Fine meas. Single/repeat   Rapid meas. Single/repeat   Tracking meas.   ction   Temperature input range   ppm input range	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 0.01m (0.01ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm Every 2.0 s (initial meas. 4.2 s) Every 0.7 s (initial meas. 2.9 s) (1) Temperature/pressure inp (4) w/o compensation, selectar -30°C to +60°C (1°C steps) / 500hPa to 1400hPa (1 hPa st) 14.8inchHg to 41.3inchHg (0. -499ppm to +499ppm (1ppm s)	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 3,300m (11,400ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 9999.999m (32,808.33ft) 9999.999m (32,808.33ft) 9999.999m (32,808.33ft) 22°F to +140°F (1°F steps) eps), 375mmHg to 1050mmHg 1inchHg steps)	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m(8,200ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Unambiguous mea Accuracy D=measuring distance, unit: mm) Measuring time Atmospheric correct	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with glass prism   with reflective sheet target   Fine meas. Single/repeat   Rapid meas.   Tracking meas.   ction   Temperature input range   ppm input range   Humidity input range	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,500m (11,400ft.) 1m to 3,700m(12,100ft.) 1m to 3,700m(12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 0.01m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (1) Temperature/pressure inp (4) w/o compensation, selectar -30°C to +60°C (1°C steps) / 500hPa to 1400hPa (1 hPa st 14.8inchHg to 41.3inchHg (0. -499ppm to +499ppm (1ppm st) 0% to 100% (1% steps)	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 9999.999m (32,808.33ft) 9999.999m (32,808.33ft) s) s) s) s) s) s) s) s) s) s	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m(8,200ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Unambiguous mea Accuracy D=measuring distance, unit: mm) Measuring time Atmospheric correct	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with glass prism   with reflective sheet target   Fine meas. Single/repeat   Rapid meas.   Tracking meas.   ction   Temperature input range   Pressure input range   Humidity input range   rrection	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,400m (7,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,00m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 0.01m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (0.5 s (initial meas. 2.9 s) Every 0.7 s (initial meas. 2.9 s) (1) Temperature/pressure inp (4) w/o compensation, selecta -30°C to +60°C (1°C steps) / 500hPa to 1400hPa (1 hPa st) 14.8inchHg to 41.3inchHg (0. -499ppm to +499ppm (1pm s) 0% to 100% (1% steps) -99mm to +99mm (1 mm step)	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft) 99999.999m (32,808.33ft) 9999.999m (32,808.33ft) s) s) s) s) s) s) s) s) s) s	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m(5,200ft.)   1m to 2,100m(6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m(8,200ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Display resolution Unambiguous mea Accuracy D=measuring distance, unit: mm) Measuring time Atmospheric correct Atmospheric correct Prism constant cor Refraction & earth-	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with glass prism   with reflective sheet target   Fine meas. Single/repeat   Rapid meas.   Tracking meas.   ction   Temperature input range   Pressure input range   ppm input range   Humidity input range   rrection   curvature correction	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,700m (8,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,00m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 0.01m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (0,001 m (0.01ft.) 0.001 m (0.1ft.) 0.001 m (0.01ft.) 0.01m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (0,000 (1) (1) (1) (1) (2) (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft) 99999.999m (32,808.33ft) 9999.999m (32,808.33ft) 5) s) s) s) s) s) s) s) s) s) s	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m (5,200ft.)   1m to 2,100m (6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m (8,200ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)
Unambiguous mea Accuracy (D=measuring distance, unit: mm) Measuring time Atmospheric correct	With CP01 compact prism   With one AP01prism   With three AP01 prisms   With nine AP01 prisms   Fine measurement   Rapid measurement   Tracking measurement   asuring range (Slope distance)   with glass prism   with reflective sheet target   Fine meas. Single/repeat   Rapid meas.   Tracking meas.   ction   Temperature input range   Pressure input range   ppm input range   Humidity input range   rection   curvature correction   sition	A. A. G. A. G. A. G. Fine meas. Rapid meas. Fine meas.	The range is achieved by usir CP01 Compact prism and Re 1m to 120m (390ft.) 1m to 800m (2,600ft.) 1m to 2,400m (7,800ft.) 1m to 2,400m (7,800ft.) 1m to 3,100m(10,100ft.) 1m to 3,00m (11,400ft.) 1m to 3,700m (12,100ft.) 1m to 3,700m (12,100ft.) 1m to 4,200m (13,700ft.) Meters or feet, selectable 0.0001 m /0.001 m (0.001ft. / 0.01ft) 0.001 m (0.01ft.) 0.01m (0.1ft.) 9999.9999m (32,808.333ft.) $\pm$ (2+2ppm x D)mm $\pm$ (5+5ppm x D)mm $\pm$ (0.5 s (initial meas. 2.9 s) Every 0.7 s (initial meas. 2.9 s) (1) Temperature/pressure inp (4) w/o compensation, selecta -30°C to +60°C (1°C steps) / 500hPa to 1400hPa (1 hPa st) 14.8inchHg to 41.3inchHg (0. -499ppm to +499ppm (1pm s) 0% to 100% (1% steps) -99mm to +99mm (1 mm step)	g Sokkia's AP prism system, flective sheet target RS90N (90 1m to 100m (320ft.) 1m to 700m (2,200ft.) 1m to 2,200m (7,200ft.) 1m to 2,500m (8,200ft.) 1m to 2,900m (9,500ft.) 1m to 3,300m (10,800ft.) 1m to 4,000m (13,000ft.) 0.001 m (0.01ft.) 99999.999m (32,808.33ft) 99999.999m (32,808.33ft) 9999.999m (32,808.33ft) 5) s) s) s) s) s) s) s) s) s) s	1m to 80m (260ft.)   1m to 600m (1,900ft.)   1m to 1,600m (5,200ft.)   1m to 2,100m (6,800ft.)   1m to 2,400m (7,800ft.)   1m to 2,500m (8,200ft.)   1m to 2,900m (9,500ft.)   1m to 2,900m (9,500ft.)

		SET1010/2010	SET3010	SET4010		
Computer and data transfe	r					
CPU		V25 ( 10MHz )		<b>—</b>		
Operating system		MS-DOS compatible				
RAM		640KB				
System ROM		128KB				
ROMDISK (for application	software)	1 MB FLASHROM				
RAMDISK	oonnaro y	512KB				
Data storage	Onboard		ory capacity About 4,800 p	ooints		
g.	Memory card		emory capacity about 1,20			
		SDC6 (256KB), SDC8 ( 51 2KB ) are optionally available.				
			t magnetic coupling syster			
				as defined by Japanese Industrial Standard		
			with International Standar			
Calendar, clock function		Provided				
Interface			232C compatible. Centron	ics compatible (w/optional DOC46 Printer cable)		
			0/9,600/4,800/2,400/1			
			set / Odd / Even, Stop bit 1			
General						
Display unit		Alphanumeric / graphic d	ot matrix LCD (120 x 64 do	ots, 20 characters x 8 lines ) on each face		
			Backlight, Non-reflect			
Keyboard				dit, power, softkey function, illumination )		
Self-diagnostic function		Automatic, Messages / Co				
Sensitivity of levels	Plate level	20" / 2 mm	30" / 2 mm			
	Circular level (in tribrach)	10'/ 2mm				
Optical plummet			on: 3x, Minimum focus: 0 5	5 m (1.64 ft.)		
Clamps / Fine motion scre	ws H&V	Co-axial, Fine/Coarse two	-speed motion			
Standing axis		Single				
Operating temperature		-20° C to +50° C (-4° F to				
Water resistance				apanese Industrial Standard Class IPX2		
				mmission Standard Class IPX2		
Tilting / Trunnion axis heigh			ach bottom, 193mm (7.6in.	) from tribrach dish.		
Size with handle and BDC3			n (W7.4 x D6.5 x H13.6 in)			
Weight with handle, battery	and memory card	5.4 kg (11.9 lbs.)				
Weight of parts		BDC35 battery: 240g (8.5)	oz), handle: 100g (3.5oz), t	ribrach: 700g (1lbs), carrying case: 3.7kg (8.2lbs)		
Power supply						
Operating voltage		6V DC				
Battery level display		4 steps with warning message				
Automatic power cut-off		Automatic cut-off 30 minutes after operation ON / OFF selectable				
Resume function		ON/OFF selectable (backed up for about 1 week)				
BDC35 Rechargeable Batte	•	Ni-MH rechargeable batte				
	Continuous use at		About 4.5 hours (About 500			
	25°C (77°F) per battery		ent, measurement interval:	30 seconds )		
		Angle measurement only:				
	Charging time per battery	About 70 minutes with CE				
BDC12 Large External	Continuous use at		bout 14 hours (About 1,60			
Rechargeable Battery (option	n) 25°C (77°F) per battery	(Fine/single measuremen		) seconds)		
		Angle measurement only:				
	Charging time per battery	15 hours with optional CD	C14 series charger			

\*When the beam's incident angle is within ±30°up and down / right and left in relation to the surface of the target.

Designs and specifications are subject to change without notice. Specifications not listed under specific instruments are identical to those appearing to the left. MS-DOS & Windows are trademarks of Microsoft Corporation. The SET1010 is made only on order. Please inquire about lead times when ordering.

#### ●Standard Configuration●

The POWERSET Series comes with: a tribrach, two rechargeable batteries BDC35, a quick charger CDC39/40/48, memory card SDC5 (128KB), RS-232C cable DOC27, tubular compass CP7, sunshade,lens cap, plumb bob, vinyl cover, tool kit,basic operating manual, POWERSET SDR software reference manual, application software menu list, carrying case and shoulderstrap.

#### ●Expert Software (optional)●

Diskette Box containing:

- •POWERSET SDR Version 4.2 Expert (3.5" floppy disk x 1),
- •COMMS Software (3.5' floppy disk x 2), COMMS Reference Manual, Document Envelope



#### Accessories (optional)







Diagonal Eyepiece DE17A OF3A

Solar Filter (flip-up type) Back Pack SC153

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