

GNSS Receiver Zenith35 Series



EASY TILT&GO

- Reach and measure hidden points with tilted pole
- Check and track pole verticality
- Precise electronic bubble



FULL CONNECTIVITY

- Control with any Wi-Fi® device
- Easy to set up and connect
- Remote access configurations



SUPERIOR PERFORMANCE

- All satellite systems supported
- NovAtel® technology
- Selectable RTK modes

Zenith35 Series

Full spectrum of satellite signals, unlimited connectivity and the unique Tilt&Go functionality all compressed in a compact GNSS make the Zenith35 series the GNSS that *works when you do*.

A corner of a building or even a gully under a parked car? Measure points where satellite signals are blocked by eaves or canopies? No problem with Zenith35 TAG - just Tilt&Go! Free yourself from working with your pole kept strictly vertical and tilt it up to 30°, and still maintaining GNSS accuracy.

Need to ensure you keep your pole vertical? The Zenith35 TAG warns you when outside your defined centring accuracy and documents the quality of your measurements.

Remove complexity with access from any device connected to the internet, independent of your location. Connect up to 10 rovers simultaneously via GSM with Zenith35 DynDNS technology.

Choose between Zenith35 TAG incorporating the unique Tilt&Go functionality and the standard Zenith35.



RECEIVER SPECIFICATIONS

AdVance® technology	High fix availability + reliability
Max. No. of satellites	60 simultaneously
Channels	120, dual frequency
GPS tracking	L1, L2, L2C, L5
GLONASS tracking	L1, L2
BeiDou tracking	B1, B2
Galileo tracking	Supported*
Positioning rate	20 Hz, 5 Hz
SBAS	EGNOS, WAAS, MSAS, GAGAN, QZSS

RECEIVER ACCURACY**

Static horizontal	3 mm ± 0.5 ppm (rms)
Static vertical	5 mm ± 0.5 ppm (rms)
Kinematic horizontal	8 mm ± 1 ppm (rms)
Kinematic vertical	15 mm ± 1 ppm (rms)
Static long horizontal	3 mm + 0.1 ppm (rms)
Static long vertical	3.5 mm + 0.4 ppm (rms)

INTERFACES

Keyboard	On/off and function keys
LED status indicators	Position, battery, Bluetooth®, Wi-Fi®, RTK receive, RTK transmit, storage card
LED mode indicators	Rover, base, static
Data recording	MicroSD card 4 GB internal memory
GSM/TCP/IP	Removable SIM card



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	GSM - UHF	Tilt&Go
GeoMax Zenith35	✓	
GeoMax Zenith35 TAG	✓	✓

QUALITY MODE

Selectable	ExtraSafe, Standard
Tilt sensor accuracy	0.1° - 3.4 mm at 2 m pole height

COMMUNICATION

GSM/GPRS module	Quad-Band GSM & Penta-Band UMTS 800 / 850 / 900 / 1900 / 2100 MHz
UHF radio module	1000 mW transceiver, 403 - 473 MHz
Bluetooth®	Device class II
TNC connector	UHF antenna, UMTS/GSM antenna
Communication port	USB, serial & power

POWER SUPPLY

Internal battery	Removable 3.4 Ah / 11.1 V
Operating time	7 h in static / 5.5 h in rover mode
External power	9 V to 18 V

PHYSICAL SPECIFICATIONS

Dimensions	Height 131 mm, ø 161 mm
Weight	1.17 kg without battery
Operating temp.	-30°C to 60°C
Protection class	IP68 dust and waterproof
Humidity	100%, condensing
Vibration	ASAE EP455 Section 5.15.1 Random, MIL-STD-810G, method 514.6E-I
Shock	Withstands 2 m drop onto hard surface

* The optional Galileo tracking will be made available once there are sufficient satellites; ** Measurement accuracy and reliability are dependent on various factors including satellite geometry, obstructions, observation time, ionospheric conditions, multipath, etc. Figures quoted assume normal to favourable conditions.



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