

# GNSS Receivers

## Zenith15 & 25 Pro Series



### EXTREMELY ROBUST

- IP68 dust and waterproof
- Withstands a 2 m topple over
- Vibration resistant



### BUILT FOR THE FUTURE

- Quad-penta band GSM/GPRS/UMTS
- UHF radio and Bluetooth®
- True GNSS: GPS, GLONASS, BeiDou, Galileo and SBAS\*



### MIX & MATCH

- Combine with your preferred datalogger and software
- Open connectivity
- Full setup flexibility

# BUILT TO LAST, BUILT FOR THE FUTURE

Withstanding vibration and 2 m topple over, and unbeatable IP68 protection for dust and immersion in water, the GeoMax Zenith15 and 25 Pro GNSS receivers are built to last, performing under extreme conditions.

This resilience comes together with the unmatched Q-Lock™ technology, allowing you to track in challenging conditions. Combined with your preferred datalogger and field software, you have full flexibility and open connectivity in the field.

## INTEGRATED 3.75 G GSM & UHF MODULES

Connectivity over long distances and greatest flexibility.

## NOVATEL GNSS TECHNOLOGY & Q-LOCK™ TECHNOLOGY

All visible satellites are tracked with the highest possible sensitivity. Sophisticated tracking and multipath mitigation algorithms guaranteeing lowest noise measurements.

## ROBUSTNESS

IP68 dust tight and water immersion protection, and vibration and shock resistance.

## ZENITH25 PRO SERIES

Your professional choice now and tomorrow

Equipped with the most advanced GNSS receiver technology, Zenith25 Pro series supports GPS, GLONASS, Galileo, BeiDou, and SBAS systems. Suitable for any application, the Zenith25 Pro series additionally considers new GNSS constellations like BeiDou and Galileo today and is prepared for even more signals tomorrow.





## ONE ANTENNA FOR ALL APPLICATIONS

- **Open connectivity**  
Choose your preferred field software.
- **Full flexibility**  
Choose your preferred datalogger.



 **Carlson**



 **X-PAD**



 **MicroSurvey**

### COMPLETE CONTROL WITH RECEIVER KEYPAD

Relevant status information at a glance and most frequently used settings.

### QUICK SWAPABLE SIM & MICRO SD CARDS

SIM card easy access and flexible memory management system.

### INTERNAL GSM / GPRS ANTENNA

Compact design, maximum ruggedness.

### EXTERNAL POWER & RADIO PORT

Enhanced flexibility for base setups.



## ZENITH15 SERIES

Your economic choice

This robust entry level GNSS receiver offers you the flexibility of choosing between UHF and GSM depending on the situation.



# Zenith15 & 25 Pro Series

|   | ZENITH25 PRO4  | ZENITH25 PRO         | ZENITH15            |
|---|--|----------------------|---------------------|
| Q-Lock™ technology                              | Lowest noise and multipath mitigation  |                      |                     |
| Satellites (Max. number tracked simultaneously) | 60   |                      |                     |
| Channels  | 120  |                      |                     |
| GPS tracking                                    | L1, L2, L2C  |                      |                     |
| GLONASS tracking                                | L1, L2   |                      |                     |
| BeiDou tracking                                 | Yes  | -                    | -                   |
| Galileo tracking *                              | Yes  | -                    | -                   |
| Positioning rate                                | 20Hz (optional), 5Hz   | 20Hz (optional), 5Hz | 5Hz                 |
| SBAS  | EGNOS, WAAS, MSAS, GAGAN   |                      |                     |
| ACCURACY**                                      |  |                      |                     |
| Static H/V (mm + ppm)                           | 3 + 0.5 / 5 + 0.5  | 3 + 0.5 / 5 + 0.5    | 5 + 0.5 / 10 + 0.5  |
| Static long H/V (mm + ppm)                      | 3 + 0.4 / 3.5 + 0.4  | 3 + 0.4 / 3.5 + 0.4  | 3 + 0.4 / 3.5 + 0.4 |
| Kinematic H/V (mm + ppm)                        | 8 + 1 / 15 + 1   | 8 + 1 / 15 + 1       | 10 + 1 / 20 + 1     |
| COMMUNICATION                                   |  |                      |                     |
| GSM/GPRS module                                 | Quad-Band GSM & Penta-Band ; UMTS 800 /850 /900 /1900 /2100 MHz ; internal antenna           |                      |                     |
| UHF radio module                                | 1000 mW transceiver; 406 – 480 MHz   |                      |                     |
|   | Yes  | Optional             | Optional            |
| Bluetooth®                                      | Device class II  |                      |                     |
| Communication port                              | USB, serial and power  |                      |                     |
| INTERFACES                                      |  |                      |                     |
| Keyboard  | On/off and function keys   |                      |                     |
| LED status and mode indicators                  | Position, battery, Bluetooth®, RTK receive, RTK transmit, storage card ; Rover, base, static |                      |                     |
| Data recording                                  | 8 GB removable microSD card  |                      |                     |
| GSM / TCP / IP                                  | Removable SIM card   |                      |                     |
| POWER SUPPLY                                    |  |                      |                     |
| External power / Internal battery               | 10.5 V to 28 V / Removable 2.6 Ah ; 7.4 V  |                      |                     |
| Operating time (static/rover)                   | 9 h / 6 h  | 9 h / 6 h            | 7.5 h / 5 h         |
| PHYSICAL SPECIFICATIONS                         |  |                      |                     |
| Dimensions / Weight                             | Height 95 mm, ø 198 mm / 1.2 kg incl. battery & UHF radio                                    |                      |                     |
| Operating temperature                           | – 40°C to 65°C   |                      |                     |
| Protection class                                | IP68 - withstands dust and immersion in water  |                      |                     |
| Humidity  | 100%, condensing   |                      |                     |
| Vibration                                       | Mechanical stress resistant according ISO 9022-36-05   |                      |                     |
| Shock   | Withstands 2m topple over 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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