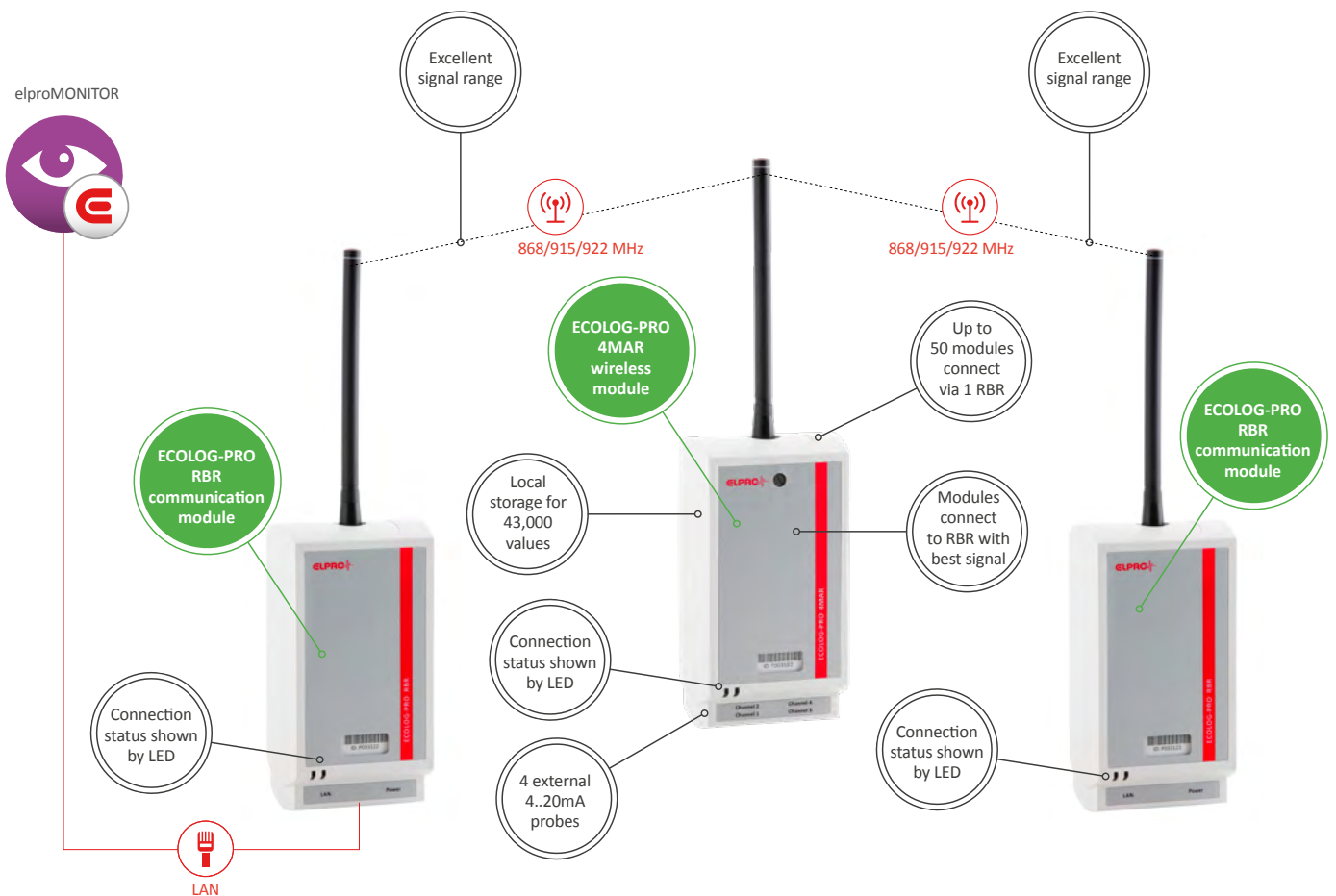




# ECOLOG-PRO 4MAR

Wireless measurement module to connect 4..20 mA transmitters

ECOLOG-PRO 4MAR is a flexible and reliable measurement solution for any possible measure to monitor your valuable materials stored in any environment. Up to 4 wired 4..20 mA transmitters/probes with individual cable lengths can be connected to and powered by the module. The measurement module is connected via Radio to the ECOLOG-PRO RBR communication module. A reliable internal storage capacity for thousands of measurements ensures all your valuable data are sent to elproMONITOR even when the connection is lost temporarily. ELPRO's industry-leading software elproMONITOR, integrated into your IT infrastructure and database, monitors hundreds or even thousands of monitoring points with wired or wireless sensors.





- > Monitors your valuable goods in any environment with any measure
- > Connects up to 4 wired 4..20 mA transmitters/probes
- > Power supply for external 4..20 mA transmitters
- > Local storage of 43,000 values per module
- > Compatible with elproMONITOR

## Technical Specification ECOLOG-PRO 4MAR

|                                                       |                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>                                           | Measurement module for wired external 4..20 mA transmitters/probes for supporting any measure                                                                                                                                                                                                                         |
| <b>Application area</b>                               | Environmental monitoring for any environment (warehouses, rooms, clean rooms, freezers, deep freezers, ULT freezers, cryo-environment ...)                                                                                                                                                                            |
| <b>Type of probe</b>                                  | 4 independent channels with separate external connected 4..20 mA transmitter/probes of any measure                                                                                                                                                                                                                    |
| <b>Probe connection</b>                               | Internal transmitter power supply 24 VDC $\pm 20\%$ ; external transmitter supply possible<br>$P_{\max}$ 12 W per module                                                                                                                                                                                              |
| <b>Measurement range</b>                              | 3.6 mA..20.4 mA                                                                                                                                                                                                                                                                                                       |
| <b>Measurement accuracy</b>                           | $\pm 0.04$ mA                                                                                                                                                                                                                                                                                                         |
| <b>Measurement resolution</b>                         | 0.001 mA                                                                                                                                                                                                                                                                                                              |
| <b>Measurement interval</b>                           | 1, 2, 3, 5, 10, 15, 20, 30, 60 minutes; depending on configuration of sensors, different intervals per sensor possible                                                                                                                                                                                                |
| <b>IP rating</b>                                      | IP20                                                                                                                                                                                                                                                                                                                  |
| <b>Environmental storage temperature / humidity</b>   | -10 °C..+50 °C<br>10% RH..90% RH, non-condensing                                                                                                                                                                                                                                                                      |
| <b>Environmental operating temperature / humidity</b> | 0 °C..+40 °C<br>10% RH..90% RH, non-condensing                                                                                                                                                                                                                                                                        |
| <b>Operating altitude</b>                             | This device must not be used at altitudes higher than 2000 meters above sea level.                                                                                                                                                                                                                                    |
| <b>Power supply</b>                                   | Power supply by external power source (802098/802096) original accessories from ELPRO. 24 VDC $\pm 20\%$                                                                                                                                                                                                              |
| <b>Display</b>                                        | 2 LED for communication and sensor status.                                                                                                                                                                                                                                                                            |
| <b>Traceability</b>                                   | ID number (traceable to component level)                                                                                                                                                                                                                                                                              |
| <b>Report</b>                                         | Via software (elproMONITOR)                                                                                                                                                                                                                                                                                           |
| <b>Case   dimension</b>                               | ABS plastic material   137 mm (5.39 inch) $\times$ 70 mm (2.76 inch) $\times$ 57 mm (2.24 inch)                                                                                                                                                                                                                       |
| <b>Connection to communication module</b>             | Available in three frequency options (usage depends on country):<br>868 MHz: Europe<br>915 MHz: USA, Canada, Argentina<br>922 MHz: South Korea<br>Note: Only the supplied antenna may be used                                                                                                                         |
| <b>Required communication module</b>                  | ECOLOG-PRO RBR                                                                                                                                                                                                                                                                                                        |
| <b>Certifications   conformity</b>                    | 868 MHz: CE   UKCA<br>915 MHz: FCC   RAMATEL/ENACOM<br>925 MHz: KC<br>Declarations of conformity are available here:<br><a href="https://elproag.atlassian.net/wiki/external/OGQ2YjBjNTM3YjA1NGVlOGJmNjYxYTE1MTY2ZmY1MGY">https://elproag.atlassian.net/wiki/external/OGQ2YjBjNTM3YjA1NGVlOGJmNjYxYTE1MTY2ZmY1MGY</a> |