ROYAL Eijkelkamp
Meet the difference

The PRO300 & PRO400 Modems

Your gateway to environmental data



Introducing the PRO300 and PRO400: Royal Eijkelkamp's latest monitoring well modems that empower precise, secure, durable, and hassle-free field data collection. Its advanced network compatibility supports a wide range of cellular networks, including 4G, LTE-M and NB-IoT networks with 2G fallback. Maintenance efforts are minimised by the option to choose between primary lithium batteries for a 10-year lifespan or alkaline batteries for 3 years, both capable of 24-hour reporting.

The built-in real-time clock, temperature sensor, and optional barometric pressure compensation feature enhance measurement accuracy. Customisable alarms guarantee real-time responses through SMS, or email.

The modems seamlessly integrate with Royal Eijkelkamp's **ROAK data portal**, simplifying data management, analysis, and visualisation, thereby enriching the decision-making process.

PRO300

Designed for perfect compatibility with the **Diver Water Level Logger**, this modem can recognise when a Diver is connected and which model it is, for automatic configuration.

PRO400

Designed for **multi-sensor compatibility**, the Prime PRO400 facilitates easy integration with existing sensor networks. With its multiple communication port options and protocols, the modem can be used for diverse connections and devices, even third-party sensors.

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Technical specifications

Item	Specifications
Housing	
Dimensions (without antenna and other auxiliaries)	∅ 48 mm x 480 mm (approximately)
Environment	-25°C / +70°C Humidity max. 95% non condensation IP68
Modem	
Modem IC type	4G LTE cat. M1/NB-IoT with 2G fallback. Or certified for Japan and South Korea: 4G LTE cat. M1/NB-IoT – no 2G fallback Optional eSIM.
Antenna	Stubby antenna (IP67) or external antenna
Bluetooth	BLE module built in, SIG v5 qualified
Data collection	
Operation mode	Up to 8 programable events/day; data transmission, SMS transmission or TCP/IP connection
Datalogging	Automatic
Flash memory	Solid state flash memory. 128 Mb, which allows for storage of more than one million single measurements.
Reading interval	Between 1 minute and 24 hours
Data access	
Remote	Full access
Data transfer	Data transfer through API
Connecting to Eijkelkamp platform	MQTT
Local data download	Not supported, only local change of modem/logger settings
Alarms	
Alarm messages triggered by field events via SMS/ e-mail or data transmission, all customisable	
Alarms	By e-mail
Log memory	
Solid state flash memory	128 MB
Field interfaces	
1x 0-10Vdc input	
1x 4-20mA input	
1x digital input (high frequency - pulse counter option)	
Protocols: ModBus, SDI-12, custom on RS485 or 232	
Data channels PRO300	1x Diver
Data channels PRO400	1x SDI-12 (up to 8 SDI12 devices can be connected) 1x Analog input 4-20mA 1x Analog input 0-10V 1x Digital input
Power	
Battery	3x 3.6 V D-size Primary Lithium (up to 10 years autonomy with 24 hr reporting) OR: 3x 1.5 V D-size Alkaline batteries (up to 3 years autonomy with 24 hr reporting)
External power	By gland or connector (PRO400 only)
Connector type sensor	Connector or cable gland (PRO400 only)
Sensor power supply	Adjustable 5 V or 12 V (PRO400 only)
Barometric pressure compensation	
Yes, by built in sensor; for the accuracy of measurements, particularly in applications like water level monitoring.	
Real-time Clock & Temperature Sensor	
Yes, built in, to enhance data accuracy and context by providing time-stamped measurements and temperature readings.	
Optional	
Diver top-port connector (only) in case of sub surface installation and high water levels. Bottom is a blind cap.	

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