



Introducing the PRO300, Royal Eijkelkamp's latest monitoring well modem, which empowers precise, secure, durable, and hassle-free field data collection. The modem's advanced network compatibility supports a wide range of cellular networks, including 4G, LTE-M, and NB-IoT networks, with 2G fallback.

The PRO offers Plug & Play functionality, as it can independently determine whether and which Diver is connected.

Key Features

- Designed for use with the Diver water level logger
- Seamless integration with our ROAK data platform
- Exceptionally long battery life
- Built-in barometric pressure compensation
- IP68 protection
- Communicates via 4G, with 2G fallback
- Optional Diver top-port connector

ROAK

The modem seamlessly integrates with Royal Eijkelkamp's ROAK data portal, simplifying data management, analysis, and visualisation, thereby enhancing the decision-making process.

ROAK is an online platform that allows you to collect, manage, and view environmental data. Whether you gather data on soil, water, meteorology, or drilling, all sensor data linked to a specific location can be transferred to our new innovative platform.

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

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.

Applications

- Remote monitoring
- Groundwater monitoring
- Restricted access sites



Item	Specifications
Housing	
Dimensions	Ø 48 mm x 480 mm (approximately)
Environment	IP68 -25°C / +70°C Humidity max. 95% non-condensation
Modem	
Modem IC type	4G LTE cat. M1/NB-IoT with 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 programmable events/day; data transmission, SMS transmission or TCP / IP connection
Datalogging	Automatic
Flash memory	Solid-state flash memory. 128 Mb (expandable on request), which allows for the 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 ROAK	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	
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 RS232; 1x Diver (or RS485) & 1x SDI-12 (supports 99 SDI-12 devices)
Power	
Battery	3x 3.6 V D-size Primary Lithium (up to 10 years with 24 hr reporting) 3x 1.5 V D-size Alkaline batteries (up to 3 years with 24 hr reporting)
External power	By gland or connector
Connector-type sensor	Connector or cable gland
Sensor power supply	Adjustable 5 V or 12 V

