PERAX
l'alternative



DeltaX

CONNECTED DATA LOGGER AND TRANSMITTER

Made in France

GEOLOCATED DATALOGGER

DURABLE

Scalable, repairable, rechargeable product

OPEN

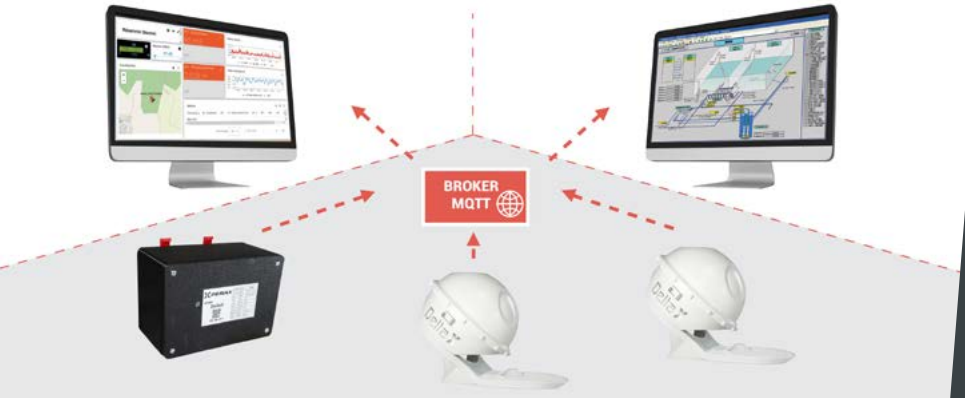
Interconnectable, standard protocol

STAND-ALONE

Wireless communication, battery or solar power

USER-FRIENDLY

Connected, configurable via web browser



OUR VALUES

COOPERATION

Attentiveness, advice and technological support from planning to implementation.

ECO-DESIGN

OpenSource software, scalable and durable solutions.

INDEPENDENCE

Interoperable, agile solutions compatible with market PLCs and open software.

A COMPLETE SERVICE OFFERING...

- Engineering, design and manufacture
- Hardware and software supply
- Commissioning assistance
- Expertise and suggestions for improvement
- Maintenance and after-sales
- Training

... Enhanced by work with our expert partners

PERAX TAILORED SOLUTIONS

- Remote meter-reading solutions for leak detection and/or overflows
- Remote monitoring solutions for potable water supply and/or wastewater systems

LIFT STATIONS AND STORM OVERFLOWS

FLOODING AND SURFACE WATER

BOREHOLES AND RESERVOIRS

PIPING

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www.perax.com

MODULARITY

Discrete inputs	2 or 6 discrete inputs, common to 0V, pulses 66Hz max 5ms min, impedance 230 KOhms
ANA inputs	2 × 4–20 mA inputs, switched 12 V power supply (±5%), 120 KOhms impedance, max. 50 mA per sensor
Digital Output	0 or 1 latching relay, max. voltage: 48 V DC, max. current: 2 A, switching when thresholds are crossed
RS485 Port	MODBUS RTU protocol (reading and control), up to 6 digital, counter, or analog data points
Central processing unit	K22 microcontroller, ESP32, 16KB RAM, 8,190 time-stamped data, 10ppm real-time clock
Wifi	2.4Ghz 10/100 mW, 802.11 b/g/n protocol, internal pcb antenna, WPA2 password
Modem	Cat M1 and Cat NB1 (4G) EGPRS (2G), 2FF SIM format, antenna 5dBi max, 5m low-loss cable
GPS	Built-into the modem, internal passive antenna 5.6dBi multi-GNSS 25x25mm
Power supply	Rechargeable 3.6 V Li-ion batteries – 11.6 Ah or 32 Ah (optional) – battery life: 3 or 5 years, external 5 V or 9–24 V power supply (mains adapter or solar panel)

EQUIPMENT

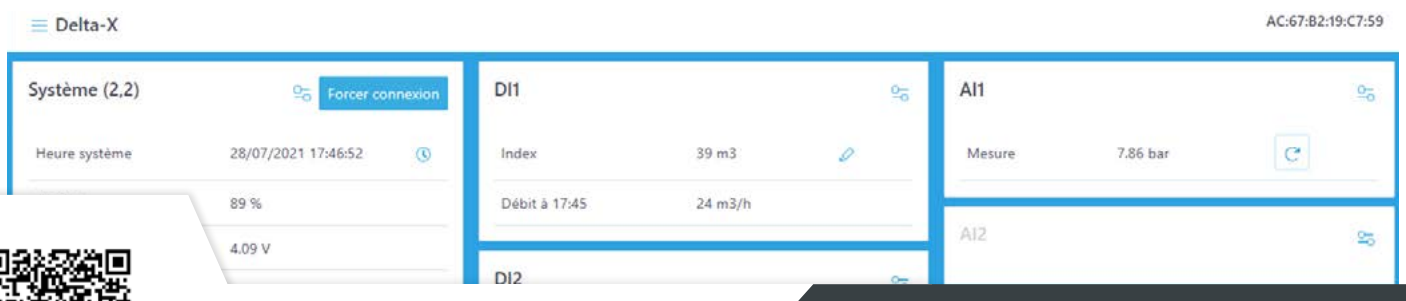
Outdoor Mechanical	IP68-rated enclosure, W 145 × D 145 × H 186 mm, wall-mounted on a bracket with a single screw, detachable with a 1/8 turn. Tool-free opening and closing. Unit weight: 1.3 kg
Indoor Mechanical	IP40-rated enclosure, W 130 × D 90 × H 66 mm (screw mounting) or H 87 mm (DIN rail mounting). Unit weight: 0.8 kg
Environment	Storage temperature: -20 to +65°C, operating temperature: -5°C to + 50°C

SOFTWARE

Memorisation	Adjustable frequency in minutes of analogue values and on change of discrete states
Protocol	MQTT client via PERAX broker or customised, with configurable SNTP time setting
Connections	On configurable APN, frequency in hours or on threshold crossing with hysteresis management
Troubleshooting	Battery, temperature, network, modems, 4–20 mA faults, software
Tools	Backing up and reloading of configurations, loading and updating of business applications, geolocation

BUSINESS FUNCTIONS

Sectorisation	6 one-way meters or 1 forward/reverse meter, adjustable totaliser index, regular volume and flow calculation, up to 2 pressure sensors
Reservoir	Up to 6 one-way meters or 1 forward/reverse meter, adjustable totaliser index, regular volume and flow calculation, up to 6 discrete inputs for bulbs, intrusion or chlorination fault, up to 2 pressure or level sensors
Storm overflow	Up to 2 overflow sensors (adjustable calibration and warm-up time), flow rate calculation by linear interpolation, connection and data logging intervals controlled by overflow detection
Rain gauge	Up to 6 rain gauge with total rainfall and rain intensity calculation
Other applications	Up to 6 discrete inputs for metering, 6 discrete inputs for alarms, and 2 analogue 4-20mA, 6 inputs for physical-chemical measurements (height, pressure, flow, temperature, conductivity, turbidity, pH) Specific applications on request



27/10/2026

< Check out the installation guide

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