Ocean Metering
Product Catalog

GAS
WATER
ELECTRICITY
REMOTE METERING

AENOR GESTIÓN DE LA CALIDAD ISO 9001

AENOR GESTIÓN AMBIENTAL ISO 14001

AENOR SEGURIDAD Y SALUD EN EL TRABAJO ISO 45001

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DIAPHRAGM METERS

GAS

G4 Y G6

-Gas type: Natural gas, air, propane, butane, nitrogen, hydrogen, and any non-corrosive gas.

-Cyclic volume:

- G4: 1.2 dm³
- G6: 2 dm³

-Maximum working pressure:

- Compact version: 0.5 bar

-Flow rate range:

- G4: Qmin: 0.04 m³/h, Qmax: 6 m³/h
- G16: Qmin: 0.06 m³/h, Qmax: 10 m³/h

-Accuracy: Class 1.5

ACD G10 Y G16

-Gas type: Natural gas, air, propane, butane, nitrogen, hydrogen, and any non-corrosive gas.

-Cyclic volume: 5 dm³

-Maximum working pressure:

- Compact version: 0.5 bar
- Standard version: 0.5 bar (1 bar optional)

-Flow rate range:

- G10: Qmin: 0.10 m³/h, Qmax: 16 m³/h
- G16: Qmin: 0.16 m³/h, Qmax: 25 m³/h

-Accuracy: Class 1.5

G25 Y G40

-Gas type: Natural gas, air, propane, butane, nitrogen, hydrogen, and any non-corrosive gas.

-Cyclic volume:

- G25: 20 dm³
- G40: 30 dm³

-Maximum working pressure: 0.5 bar (1 bar optional)

-Flow rate range:

- G25: Qmin: 0.25 m³/h, Qmax: 40 m³/h
- G40: Qmin: 0.4 m³/h, Qmax: 65 m³/h

-Accuracy: Class 1.5

G65 Y G100

-Gas type: Natural gas, air, propane, butane, nitrogen, hydrogen, and any non-corrosive gas.

-Cyclic volume:

- G65: 55 dm³
- G100: 123 dm³

-Maximum working pressure: 0.5 bar

-Flow rate range:

- G65: Qmin: 0.65 m³/h, Qmax: 100 m³/h
- G100: Qmin: 1 m³/h, Qmax: 160 m³/h

-Accuracy: Class 1.5

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TURBINE METER & ROTARY PISTON METERS

GAS

FLUXI 200/TZ

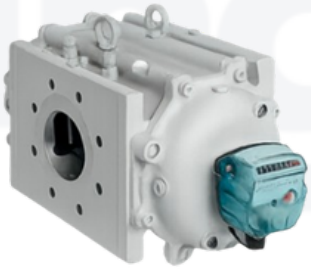
-Gas type: Natural gas, air, propane, butane, nitrogen, hydrogen, and any non-corrosive gas.
-Flow range: 5 m³/h to 10,000 m³/h
-Accuracy class: 1
-Turndown ratio: 1:20, 1:30
-Nominal diameters: DN50 to DN400
-Maximum working pressure: Up to 100 bar
-Length: 3 DN
-Mechanical environment: Class M1
-Electromagnetic environment: Class E2
-Compliant with: MID, PED, ATEX, EMC

S1 FLOW

-Gas type: Natural gas, air, propane, butane, nitrogen, hydrogen, and any non-corrosive gas.
-Flow rate: 0.4 m³/h to 160 m³/h
-Sizes: G16, G25, G40, G65, and G100
-Turndown ratio: 1:20 to 1:200
-Nominal diameter: 50 mm (2")
-Flanges: PN 10/16 to PN 40, Class 150 to Class 600
-Pressure range: Up to 101.2 bar

DELTA SILVER & EVO

-Gas type: Natural gas, air, propane, butane, nitrogen, hydrogen, and any non-corrosive gas.
-Flow rate: 0.4 m³/h to 250 m³/h
-Sizes: G16, G25, G40, G65, G100, and G160
-Turndown ratio: 1:20 to 1:200
-Nominal diameters: 50, 80, and 100 mm (2", 3", and 4")
-Flanges: PN 10/16 and Class 150 (125)
-Pressure range: Up to 19.3 bar



DELTA 2100

-Gas type: Natural gas, air, propane, butane, nitrogen, hydrogen, and any non-corrosive gas.
-Flow rate: 0.4 m³/h to 250 m³/h
-Sizes: G16, G25, G40, G65, G100, and G160
-Turndown ratio: 1:20 to 1:200
-Nominal diameters: 50 and 80 mm (2" and 3")
-Flanges: PN 10/16 and Class 150 (125)
-Pressure range: Up to 19.3 bar

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FLOWMETERS

GAS

DELTA QD

-Flow rate:

- QD25 – 0.8 to 25 m³/h
- QD60 – 2 to 60 m³/h

-Starting flow: < ±1.5% across the entire flow range

-Maximum operating pressure: 16 bar

-Temperature range: -30 K to +60 °C

-Storage temperature: -40 K to +70 °C

-Pressure drop at maximum flow (with gas = 0.83 kg/m³):

- QD25 – 0.8 mbar
- QD60 – 4.1 mbar

-Connections: 1 1/2" BSP internal thread

-Low-frequency transmitter: Dual low-frequency reed switch transmitter, connected to a 6-pin plug

-Pulse value: 0.01 m³/pulse

MZ

-Flow rate:

- 6 m³/h to 2,500 m³/h

-Nominal diameters: DN50 to DN200

-Material: Ductile iron

-Compliant with: Pressure Equipment Directive 2014/68/EU

-Maximum working pressure: Up to 40 bar, depending on flange type

-Temperature range:

- Ambient: -30 °C to +60 °C
- Gas: -30 °C to +60 °C

-Storage temperature: -40 °C to +70 °C

-Metrology: Acceptance tolerance is ±1.5% from Qmin to Qmax

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ELECTRONIC CONVERTER

GAS

CORUS EVO+

-High accuracy: Compliant with MID according to EN12405-1:2018 (0.5%) with optional Class A accuracy (0.3%) according to EN12405-2:2012
-High modularity: 6 optional slots
-ATEX and IECEx approved for hazardous zones 0 or 1
-Autonomy: Up to 15 years
-Enclosure: IP66
-Tamper detection functions
-Encrypted communication with individual keys
-Energy index management
-Multiple volume interfaces: LF, HF, Cyble, Cyble SC, Encoder
-Operating temperature range: -25 °C or -40 °C to +70 °C
-Display: Graphic LCD
-Integrated cellular modem

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PRESSURE REGULATORS

GAS

133 Y 233

-Maximum inlet pressure: 8 bar
-Outlet pressure: 10 mbar to 0.55 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas
-Safety devices:

- Optional integrated safety shut-off valve
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

-Options:

- Safety diaphragm
- Safety relief valve

RB 2000

-Maximum inlet pressure: 10 bar
-Outlet pressure: 5 mbar to 180 mbar
- Extended range up to 750 mbar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, hydrogen (up to 330%), or any non-corrosive gas
-Safety devices:

- Optional integrated safety shut-off valve
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

-Options:

- Impulse line: internal or external
- Version with monitor

RB 3200

-Maximum inlet pressure: 10 bar
-Outlet pressure: 7 mbar to 550 mbar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas
-Safety devices:

- Optional integrated safety shut-off valve
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

-Impulse line: External

RB 4000

-Maximum inlet pressure: 19 bar
-Outlet pressure: 10 mbar to 2 bar (2.5 bar for DN25)
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas
-Safety devices:

- Optional integrated safety shut-off valve
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

-Options:

- Integrated silencer
- Version with monitor

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PRESSURE REGULATORS

GAS

RB 1700 - 3/4"

-Maximum inlet pressure: 19 bar
-Outlet pressure: 0.1 bar to 4.8 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas
-Safety devices:

- Optional integrated safety shut-off valve
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

VR 75

-Maximum inlet pressure: 1 bar to 100 bar
-Outlet pressure: 0.45 bar to 16 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

RB 4600

-Maximum inlet pressure: 25 bar
-Outlet pressure: 5 mbar to 13 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas
-Safety devices:

- Optional integrated safety shut-off valve
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

-Options:

- Integrated silencer
- Noise reduction

RB 4700

-Maximum inlet pressure: 25 bar
-Outlet pressure: 5 mbar to 13 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas
-Safety devices:

- Optional integrated safety shut-off valve
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

-Options:

- Integrated silencer
- Stroke limiter (DN25 only)

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PRESSURE REGULATORS

GAS

RB 1700 Y RB 1800

-Maximum inlet pressure: 19 bar

-Outlet pressure:

- RB 1700: 0.12 bar to 25 bar
- RB 1800: 19 mbar to 25 bar

-Operating temperature: -20 °C to +60 °C

-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

-Safety devices:

- Optional shut-off valve
- Optional vent relief valve (RB 1800 only)
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

-Options:

- Version with monitor

RR16

-Maximum inlet pressure: 16 bar

-Outlet pressure: 10 mbar to 1.1 bar

-Operating temperature: -20 °C to +60 °C

-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

-Safety devices:

- Optional shut-off valve
- OPSO: Overpressure shut-off
- UPSO: Underpressure shut-off

-Options:

- Version with monitor
- Integrated silencer

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SAFETY VALVES

GAS

SRV 801 / 811

-Maximum inlet pressure: 19 bar
-Relief pressure adjustment range: 30 mbar to 650 mbar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

SRV 803

-Maximum inlet pressure: 5 bar
-Relief pressure adjustment range: 0.5 bar to 5 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

SRV 811R

-Maximum inlet pressure: 1.5 bar
-Relief pressure adjustment range: 8 mbar to 700 mbar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

SRV 285D

-Maximum inlet pressure: 100 bar
-Relief pressure adjustment range: 2.5 bar to 16 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

SRV 155D

-Maximum inlet pressure: 16 bar
-Relief pressure adjustment range: 0.2 bar to 9.5 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

SRV 275D

-Maximum inlet pressure: 16 bar
-Relief pressure adjustment range: 20 mbar to 500 mbar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

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SAFETY VALVES

GAS

SSV 8600

-Maximum inlet pressure: Up to 25 bar
-Overpressure shut-off range: 25 mbar to 20 bar
-Underpressure shut-off range: 5 mbar to 5 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas
-Options:

- Valve position indicator (inductive sensor or reed switch)
- Remote activation via explosion-proof solenoid valve

SSV 8500

-Maximum inlet pressure: Up to 16 bar
-Overpressure shut-off range: 25 mbar to 5.6 bar
-Underpressure shut-off range: 9 mbar to 2.5 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

SSV SL-IZ

-Maximum inlet pressure: Up to 101.2 bar
-Relief pressure adjustment range: 35 mbar to 60 bar
-Operating temperature: -20 °C to +60 °C
-Compatible gases: Natural gas, propane, butane, air, nitrogen, or any non-corrosive gas

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VALVES

GAS

THREE-WAY

-Maximum pressure: 100 bar

-The connection fitting allows easy installation without twisting the pressure transmitter cable

-Connection to the external pressure source: Ermeto 6L

-The valve is installed on the meter at the Pm connection via a fitting, which varies depending on whether it is connected to a Delta or a turbine meter (¼" NPT for Delta, ¼" BSP for TZ)

BUTTERFLY

-Concentric disc valves

-Range: DN40 to DN300

-Bidirectional shut-off

-Threaded lugs

-One-piece shaft, preventing breakage from water hammer

-Cartridge ring for easy replacement

-Compact dimensions and reduced weight

-No gaskets required for installation

-Low pressure drop

-Top flange ISO 5211

-Lever with 10 positions

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ATEX ACCESSORIES

GAS

ISB +
SERIAL PORTAL

-ATEX Approval: No. LCIE 07 ATEX 6083X II(1)G [Ex ia] IIC with CE

-Enclosure: Operating temperature range: -25 °C to +55 °C

-Power supply: 9–24 VDC, minimum 8 W

-Voltage output: For 1 CORUS power supply

-Communication ports:

- RS232 and RS485 for classified zone
- RS232 and RS485 for safe zone

-Dimensions: 140 × 90 × 60 mm

-Maximum cable length:

- RS232: 50 m (classified and safe zones)
- RS485: Classified zone: up to 200 m / Safe zone: up to 1 km

B-RS
SERIAL PORTAL

-The PS-E is designed for systems powered by mains voltage (Um = 250 Vac). It provides a 5 Vdc output voltage.

-The PS-E incorporates galvanic isolation between input and intrinsically safe output via an isolated transformer, with fuse and voltage limiter protection, followed by a rectifier and voltage regulator.

-The intrinsically safe power supply features reverse polarity protection, voltage and current regulation through Zener diodes, and a replaceable T100 mA fuse.

PS-E
POWER SUPPLY

-The PS-E is designed for systems powered by mains voltage (Um = 250 Vac). It provides a 5 Vdc output voltage.

-The PS-E offers galvanic isolation via an isolated transformer, protected by a fuse and voltage limiter, including rectification and voltage regulation.

-The intrinsically safe power supply includes reverse polarity protection, regulation via Zener diodes, and a replaceable T100 mA fuse.

B-DO
DIGITAL SIGNALS

-The B-DO is a safety barrier that allows conventional digital signals to be connected to intrinsically safe equipment in hazardous areas.

-Powered by 12 V DC

-Housed in a plastic enclosure and designed for mounting on a 35 mm DIN rail in a distribution panel. Wire connections use terminals for cables with a maximum cross-section of 2.5 mm².

-Available in two versions: the basic B-DO and the B-DO/A version, which powers the isolator only from an accumulator.

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METERS FOR THE RESIDENTIAL SECTOR

WATER

AQUADIS +

-A new standard for Volumetric Water Meters

-The Aquadis+ is a volumetric water meter with rotary piston technology, designed for high-performance measurement for management and billing in the residential sector.

-High long-term accuracy

-Secure readings

-High efficiency

-Pre-equipped with Cyble for future integration with communication systems

INTELIS™

-The Intelis™ wSource™ is a robust, low-maintenance residential ultrasonic meter that easily communicates with various systems and provides advanced data to enhance operational efficiency and water conservation, even under challenging environmental conditions.

-The only meter with MID R1000 certification

-Maintains high accuracy even in difficult conditions

-Battery life of up to 22 years

-Local NFC communication

-Interoperable with open standards

FLODIS

-Single-jet velocity water meter

-The Flodis is a velocity meter for domestic billing, MID-approved, single-jet type, with magnetic transmission and extra-dry register, pre-equipped for remote metering.

-Compatible with all types of potable water

-Easy reading

-Applications:

- Remote reading
- Flow analysis
- Dosage management
- Network monitoring
- Consumption analysis

MEDIS +

-Single-jet residential meter

-A single-jet water meter designed for residential use. It can be upgraded to advanced communication capabilities at any time using Itron Cyble modules.

-Weather-resistant performance

-Pre-equipped for communication:

- Allows field installation of Cyble modules at any time

-Compatible with a wide range of advanced and reliable AMR systems:

- Walk-by radio systems
- Fixed radio data collection systems
- M-Bus systems
- Any other pulse output system

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METERS FOR THE C & I

WATER

FLOSTAR M

-Designed to meet the advanced needs of water utilities in high-volume billing applications

-Very wide dynamic range, MID-approved up to R630

-High accuracy at low flows combined with maximum flows

-Pre-equipped with Cyble Target

- Enables communication via:

- Cyble Sensor
- Cyble M-Bus
- Cyble RF

WOLTEX M

-Designed to meet all applications requiring high reliability and accuracy

-MID approval available for diameters DN5 to DN300

-Flow disturbance sensitivity class UODO

-Approved interchangeable mechanisms, allowing maintenance of existing bodies in the field

-Accurate and reliable data collection

-Available in various lengths and connection types

-Pre-equipped for remote communication via Cyble technology

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WATER ACCESSORIES

WATER

FLOW STABILIZER

-Eliminates flow disturbances that can affect meter accuracy. Primarily installed upstream of horizontal Woltmann meters to straighten flow altered by valves, filters, elbows, or pumps.

-Combines various diameters and internal baffles to remove flow turbulence.

-Can be installed in any position.

-Special high-pressure drilling (40 bar) available on request for diameters 150 to 500 mm.

BUTTERFLY

-Concentric disc valves

-Range: DN40 to DN300

-Bidirectional shut-off

-Threaded lugs

-One-piece shaft, preventing breakage from water hammer

-Cartridge ring for easy replacement

-Compact dimensions and reduced weight

-No gaskets required for installation

-Low pressure drop

-Top flange ISO 5211

-Lever with 10 positions

BASKET FILTER

-The robust and compact design allows easy installation and safe handling over time, even under harsh conditions. The cast iron body is protected with epoxy coating, and the filter elements are made of stainless steel.

-Top access to the filter cartridge

-Large filtration area combined with high storage capacity

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ELECTRIC METERS

ELECTRICITY

TYPE 1

-Meter-recorder compliant with the Measurement Point Regulation
-Intended for power plants, large facilities, major industries, and very high-consumption installations
-Power: ≥ 10 MW
-Accuracy: 0.2%
-Verification: Every 2 years

TYPE 2

-Meter-recorder compliant with the Measurement Point Regulation
-For large industrial facilities and major consumption centers
-Power: ≥ 450 MW
-Accuracy: 0.5%
-Verification: Every 5 years

TYPE 3

-Meter-recorder compliant with the Measurement Point Regulation
-For mixed cases and installations with special characteristics
-Power: 14 kW to 50 kW
-Accuracy: 1%
-Verification: Every 5 years

TYPE 4

-Meter-recorder compliant with the Measurement Point Regulation
-For larger commercial sites, small workshops, hospitality, small industries, and some multi-load community buildings
-Power: 14 kW to 50 kW
-Accuracy: 1%
-Verification: No specific or general timeframe

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Ocean Metering
METERING SOLUTIONS

REMOTE METERS & MODEMS

ELECTRICITY

IGW

-For flexible and powerful protocol conversion:

-From meter data aggregation to protocol conversion. Supports a wide range of protocols (DNP3.0, IEC 61850, MMS & GOOSE, DIM, Modbus, IEC 60870-5-101/102/103/104, etc.), enabling communication with all devices and control centers in any type of substation or power plant.

-Adaptable and modular communication units, suitable for all types of energy environments

-Internal switch with RSTP/PRP/HSR redundancy

INTERFAZ LC

-The LC device is a serial-to-Ethernet or Wi-Fi interface, allowing connection to equipment with an R5232 or R5485 port.

-Equipment configuration is accessed via the web page at IP address 10.10.10.10, using username and password (admin/admin).

INDUBOX GSM M4

-Smart communication modem for the industrial and energy markets:

-The InduBox GSM M4 is a robust and versatile industrial device designed to provide reliable and secure data communications. It operates with either DC or AC power and incorporates a monitoring circuit to ensure continuous operation. It uses a Sierra Wireless module and features isolated RS-232 and RS-485 interfaces, controlled by a Cortex M4 microcontroller.

-Thanks to the Sierra Wireless CF3 HL WAN module, it enables migration across communication technologies (2G, 3G, 4G, LTE-M, NB-IoT) and offers global compatibility. Supports Modbus gateways for IEC 60870-5-104 and is commonly used for electric meter reading.

WM-E2S

-The WM-2ES modem replaces the former Sparklet, specifically designed for Itron ACE6000 and ACE SL7000 electric meters.

-Enables future migration to LTE networks while maintaining the same functions and increasing data transmission speed. Can be updated remotely, reducing maintenance costs.

-In AMR/AMI systems, provides a stable connection for extracting consumption data from the meter.

-Compatible with Itron ACE6000 and SL7000 meters, its design allows installation under the terminal cover, meeting Itron standards.

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REMOTE METERING

SIM M2M

-In its 2G, 3G, and 4G versions, it provides an IP-based reading system that fully manages the entire solution, from software to the meter (SIM, modem, and reading program).

TEMETRA

-A key tool to drive transformation while maintaining efficient daily operations. By adopting this platform, a smooth digital transition is ensured, with minimal disruptions and faster return on investment.

-Provides insights into infrastructure for efficient planning.

-Near real-time meter data, facilitating informed decision-making.

M-BUS CYBLE V2.0

-Cyble M-Bus technology allows remote integration and reading of Itron water or gas meters on M-Bus networks, offering advanced features to enhance customer service.

-Battery: Lithium

-Battery life: 15 years

-Included accessories:

-3 m cable

-Mounting screw (steel)

-Plastic seal

-Compliance: CE

CYBLE ™ SENSOR

-Cyble technology enables reliable data transmission.

-Cyble communication modules allow dependable remote reading of water meters. All Actaris meters come pre-equipped for future remote reading technologies, and Cyble technology has proven high reliability and accuracy.

-The Cyble sensor is fully compatible with pre-equipped water meters and can be easily installed in the field. Installation is simple and does not require breaking seals or disassembling the meter.

-Power supply: Lithium battery

-Battery life: 12 years

-Compliance: CE, RoHS, WEEE2, and ATEX

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REMOTE METERING

ANYQUEST CYBLE BASIC

-Radio Module for Remote Water Meter Reading

-Protocol: RADIAN

-Transmission: Bidirectional symmetric communication

-Line-of-sight distance (LOS): > 1500 m

-Power supply: Lithium battery

-Battery life: 15 years

-Relative humidity: Submersible

-Compliance: CE

CYBLE DOCK V2

-It allows the radio module to be placed in an optimal position, improving signal coverage for meters installed in challenging locations, such as deep or flooded pits.

-Power supply: Lithium battery

-Battery life: 10 years

-Additional two-stage protection: resin injection, protective enclosure glued and chemically welded

-Compliance: CE

CYBLE 5

-Multi-connectivity Radio Module for fast reading in AMR (Drive-by) systems and fixed AMI networks.

-The Cyble 5 is a solution that digitizes mechanical water and gas meters, enabling rapid remote reading (AMR) and IoT data collection. Its integrated multi-connectivity makes it adaptable to complex and stable deployments as needed, providing a secure long-term investment.

-Protocols: wM-Bus T2/C2, LoRaWAN, Sigfox, OMS v4

-Power supply: Lithium battery

-Battery life: Up to 15 years

-Relative humidity: Submersible

-Compliance: CE, RoHS, WEEE2, and ATEX

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