



The Smart Measurement of Gas Volume

HybridSmart

Modular Concept of Smart Index



VERSATILITY

Hybrid Solution

The Product offers 2 in 1 in terms of the gas consumption registration. Mechanical Index and Electronic Encoder under one common housing. Additional internal electronic modules offers various combination of extended functionalities.

OEM Compartment

Designed for OEM manufacturers. Index has available internal compartment where OEM customers can design their own circuit board integrating their own Additional Functionalities.

Range of Products

Compatible with UG-series 1,2l and 2,2l measuring units offering meters ranging from G1,6 to G6 with bosses spacing:
DN25, 100 mm, 110 mm, 130 mm, 6", 160mm, 220 mm, 250 mm.

Zero pressure drop Shut-Off-Valve

Products can be equipped with optional internal ball-valve. Highest security of valve operations is ensured by the endstop microswitch detecting real position of the valve (open/closed). Custom designed for Metrix UG-series 1,2l and 2,2l measuring units. Tested and approved for Class 1 according EN16314.

Absolute Encoder

High-End IP protected Swiss technology of Absolute Encoder offers real-state scanning of the mechanical index. Reading on demand ensures highest possible energy saving and 100% guaranteed readings.

Incremental Encoder (as an option to Absolute Encoder)

Cost-effective recording and archiving electronic module for gas volume encoding based on field proven optical detection using *graycode* disc.

Radio Modules with dedicated Internal Antennas

Products can be equipped with Radio Modules offering solutions for:

- 868 Mhz Wireless M-BUS in accordance with EN13757-3 and OMS;
- 169 Mhz Wireless M-BUS N-mode in accordance with EN13757-4:2013. It meets additional specifications required by the Italian Gas Metering market regulations;
- GSM/GPRSGSM/GPRS quad band. Full compliant ARG155/08, UNI/TS11291 and subsequent (Italian reference of AEEG standard). DLMS protocol implemented.

Mechanical or Electronic Temperature Compensation

Products can be equipped with optional mechanical or electronic temperature compensation fitting UG 1,2l and UG 2,2l measuring units.



HybridSmart is the newest product from Apator Metrix dedicated for flexible Smart Gas Metering solutions. Retaining the best functionality from the traditional conservative mechanical index while implementing various of Smart Technology including Shut-Off-Valve, Temperature Compensation and Radio Modules. This package is MID-approved whilst offering OEM-customers enough space in separate compartments to integrate their own printed circuit boards providing additional functionalities as communication modules, valve control with related PAYG functionalities and others.

HybridSmart provides you with great versatility you can choose from. It offers a platform you can build your own Smart Gas Meter.

HybridSmart has been developed based on the experience of the production of hundreds of thousands of smart meters for the EU markets in recent years.



Apator Metrix S.A.
ul. Piaskowa 3, 83-110 Tczew
tel. 58 53 09 200, fax 58 53 09 300
metrix@apator.com