

M Slim2 MODUS

Electronic Volume Converter

Modus Slim2 is a MID certified Electronic Volume Converter with integrated communication module suitable to installation in ATEX Zone 0 classified areas.



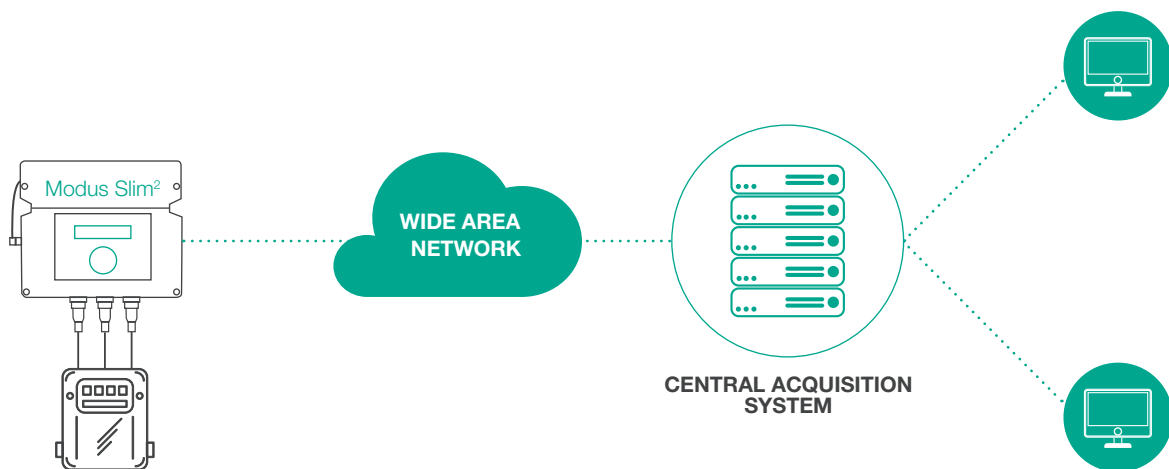
The device is designed to be remotely controlled by the centralised data collection system (SCADA/SAC) using UNI TS 11291-3 (CTR) communication protocol.

Modus Slim2 is a MID certified PTZ Electronic Volume Converter supporting the acquisition of a pulse input from the gas meter and pressure and temperature measurements by means of integrated sensors.


The device comes with integrated GSM/GPRS module with connection to external antenna. Whenever required this allows remotization of RF antenna to ease and facilitate device installation.

Installation and local setup are supported by user friendly local communication software Modus Configurator.

Battery life exceeds 5 years with daily GSM/GPRS communications. Battery replacement can be performed in hazardous area without removing the metrological seal.



Electrical Characteristics

Measurement channels	<ul style="list-style-type: none"> • LF volume input up to 3 Hz • Input from piezoresistive absolute pressure sensor with 3 m standard cable, accuracy < 0.25%, standard process connection ¼ G male • PT1000 class A temperature sensor input, 3 m standard cable • Antitamper Input
Compressibility formulas	UNI EN ISO12213-3 (SGERG88), UNI EN ISO 12213-2 (AGA8-DC92), AGA NX-19
Temperature range	-25 °C ÷ +60 °C
Pressure range	0.8 ÷ 2 barA 0.6 ÷ 3.5 barA 0.9 ÷ 10 barA 5 ÷ 24 barA 10 ÷ 40 barA 20 ÷ 80 barA
Digital outputs	2 DO Open Collector <ul style="list-style-type: none"> • Configurable as Vm, Vb pulse repeaters
Enclosure	IP66 polycarbonate enclosure (EN 60529) Dimensions 180 x 150 x 40 mm Weight Kg. 1.6
Environmental conditions	Temperature Range: -25°C < T < +60 °C Humidity 90% without condensation
Power	From internal LiSoCl2 primary battery: <ul style="list-style-type: none"> • Battery life > 5 years
Interfaces	Alphanumeric display 2x20, 3 keys Serial optical port compliant to EN 62056-21 (ZVEI) GGSM/GPRS integrated modem with UNITS 11291-3 (CTR) protocol
Certifications	<ul style="list-style-type: none"> •  II 1 G Ex ia IIA T3 Ga Tamb= -25°C ÷ +60°C Certificate No. TUV IT 21 ATEX 034 X • MID approval Certificate IT-024-21-MI002-2213

* Specifications are subject to change without notice.