



ELCOR

ELECTRONIC
VOLUME
CONVERTER

Description

The ELCOR gas volume corrector is a metrological instrument designed to convert the volume of gas measured at operating conditions into a volume at basic conditions.

The gas volume information are digitized by the pulses exiting the

counter or through the output of the data encoder. The pressure and temperature of the gas are measured through integrated transducers. The instrument calculates the compressibility degree of the gas through standard methods or through a constant value.

Main features

- Built with the latest technology used to ensure the device's high performance, high resistance to use and handling
- Sturdy casing designed for outdoor use, the cover is equipped with a closing mechanism that keeps it closed without fixing the screws
- High immunity to electromagnetic interference (EMC), resistance up to double the interference values required by the industrial standard
- Digital inputs and outputs widely configurable by the end user
- Resistant capacitive keyboard for easy device operation
- Display of actual and storage values
- New generation of digital pressure and temperature transducers with high precision and long-term stability
- High capacity flash memory for internal archives for storing measured and calculated data for several years
- Possibility to change device settings
- Communication with the device through several independent communication channels in the latest generation networks with different communication protocols
- Communication is completely independent and does not affect the data measurement, calculation and storage system

Optional ELCORplus features

- Battery size B-03D (duration ≥ 18 years)
- PS-E external power supply modules (measurement)
- Up to 6 digital transducers
- Up to 4 analog outputs
- Up to 6 analog inputs

Basic features

- Certification in accordance with the European MID and ATEX directives
- Designed to be installed in Zone 0, 1 and 2 hazardous areas
- Fully configurable device
- Backlit or segmented 128 x 64 pixel LCD graphic display
- IP 66 degree of protection
- Working temperature from -25°C to $+70^{\circ}\text{C}$
- Different methods of calculating compressibility

Communication

- Optical interface IEC 62056-21

Input / Output

- 3 digital inputs
- 2 digital outputs
- Up to 2 analog outputs with 4-20 mA module

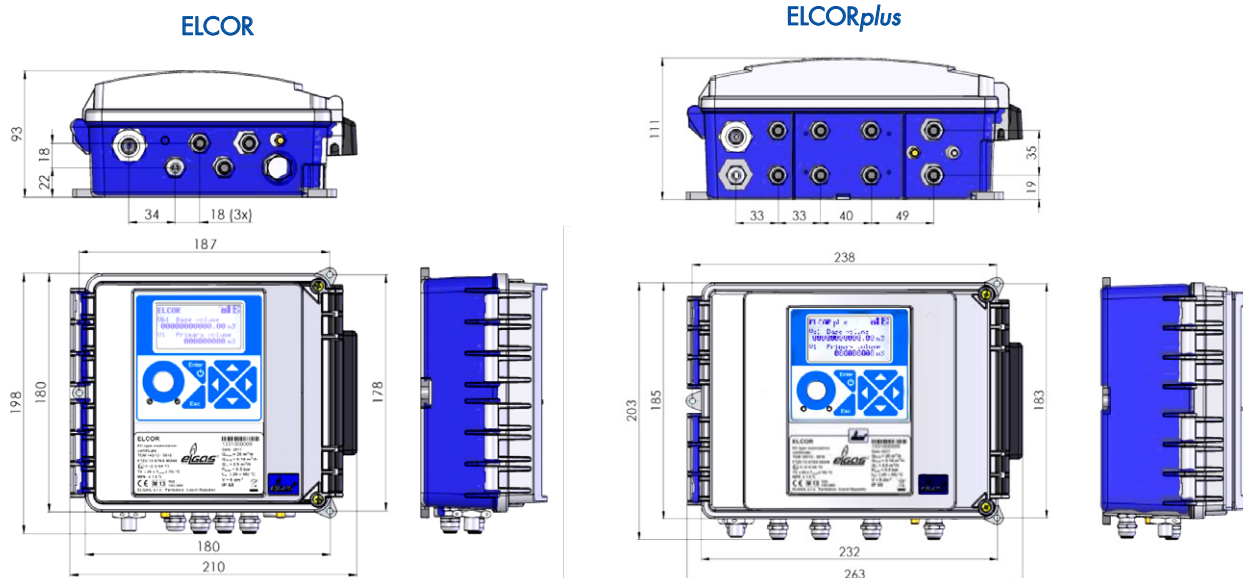
Technical data

	ELCOR	ELCORplus
Case	Fiberglass polycarbonate	
Dimensions	210 x 190 x 93 mm	263 x 201 x 111 mm
Weight	1.5 kg	2.2 kg
Protection class	IP 66	
Operating temperature	from -25 ° C to + 70 ° C (optionally from -40 ° C)	
Control panel	6-button capacitive keyboard	
Display	LCD graphic display, 128 x 64 pixel	
Supply	- Measurement, B-03 duration \geq 11 years under standard operating conditions	
Temperature range	form -25°C to +70°C	
Standard pressure range (absolute bars)	0.8 - 5.2; 2 - 10; 4 - 20; 7 - 35; 14 - 70; 25 - 130 bar	
Accuracy	< 0,25 % measured value (MID) < 0,2 % typical measured value	
Communication interface	RS232 or RS485, optical interface (EN 62056-21)	
Communication speed	optical interface	2400 Bd ÷ 115 200 Bd
	RS232 / RS485	2400 Bd ÷ 115 200 Bd
Digital inputs	3, configurable as LF or binary	Up to 12 (LF, HF, binary)
Digital outputs	2, configurable as pulses or binary output	4 (LF or binary)
Analog outputs	2, using the CL-O external module	Up to 4, using the CL-O external module

Optional accessories

Electric current regulation module	CL-O (4 - 20 mA)
Intrinsically safe communication interface	DATCOM-K3
Optical port	Infrared port HIE-03 (RS-232) Infrared port HIE-04 (USB)

Dimensions (in mm)



Product range



Rotary piston gas meters



Turbine gas meters



Gas pressure regulators



Electronic volume correctors



Diaphragm gas meters



Smart meters

metrixitalia

Metrix Italia s.r.l.

Via Nona Strada, 53 - 35129 Padova (Italy)

Tel: +39 049 5349377 - Fax: +39 049 8076008

www.metrixitalia.it - E-mail: info@metrixitalia.it