



CE CPT-04 E

TURBINE GAS METER
NOT FOR FISCAL USE
WITH ELECTRONIC COUNTER

CPT-04 E



Description

The CPT-04 E quantometer represents the evolution of the classic gas measurement systems combined with modern mechanical Electronic solutions. The measurement of the gas volume is processed by a precise mechanical system and by contactless electronic sensors. The modularity of the gas meter CPT-04 E allows you to equip the device with different communication interfaces. The accuracy of the electronic counter guarantees higher precision in gas flow measurement, if compared to measurements obtained by a high-frequency pulse emitter on mechanical meters. Details about volume and flow as well as measurement history can be read directly on the display of the device. The basic functions are operated through two buttons. The quantometer CPT-04 E is equipped as standard with LF, HF and two configurable outputs. The communication interface simplifies the integration with SCADA and BMS systems.

- From DN25 to DN150;
- 9-digit LCD display;
- LF and HF pulse outputs, as standard
- Communication interfaces: 4-20 mA, RS-485, M-Bus;
- Data reading protocols: Modbus, GazModem, M-Bus;
- High resolution in the gas flow measurement;
- Detection of the gas flow direction;
- Data and alarm recording;
- "Gas guard" to check hourly consumption of gas;
- Instantaneous flow rate display

Electronic counter data outputs

Standard

Socket 1

OC Type Transmitter:

- ✓ LF pulse emitter
- ✓ 2 configurable outputs:
- Additional LF pulse output
- Anti-fraud sensor against magnetic tampering (AFK)
- Hourly limit of gas consumption ("gas guard")
- Detection of the real flow direction (F-DIR)

Socket 2

Namur Transmitter (galvanic isolation):

- ✓ LF output
- ✓ HF output

Optional

Socket 3

Pulse Inputs

Socket 4

Outputs (galvanically isolated):

- ✓ 4-20mA analog current loop
- ✓ Digital M-Bus or
- ✓ RS-485 digital or
- ✓ Namur digital ENCODER



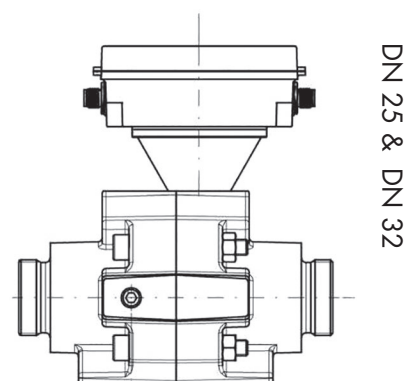
Technical Features

Accuracy class 1.5	$Q_t \div Q_{max}: \pm 1.5\%$ $Q_{min} \div Q_t: \pm 3.0\%$
Temperature range	$-25^{\circ}\text{C} \leq t \leq +55^{\circ}\text{C}$
ATEX Certification	Ex II 2G Ex ib [ia Ga] IIB T3 Gb
Maximum operating pressure	20 bar
Installation Positions	HV (Horizontal and Vertical)
IP protection class	IP 66/67
LF emitter, 2 outputs	Open Collector (OC)
NAMUR Transmitter LF+HF	EN IEC 60947 - 5 - 2:2020 EN 60947 - 5 - 6:2000
Battery life	Up to 10 years
EMC Environmental Class	E2
Socket Type (Interface)	M12 Male (4-pin)
OPTO communication port	EN 62056-21

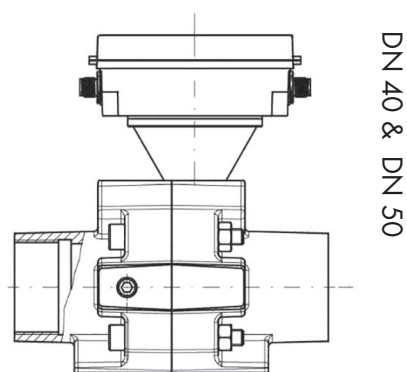
Metrological parameters

DN	G	Qmax	ΔP_{ma}	Qmin with rangeability		
				1:10	1:20	1:30
-	-	(m ³ /h)	(mbar)	(m ³ /h)		
DN25 (1")	G16	25	5,0	2,5	-	-
	G25	40	4,0	4	-	-
DN32 (1 ¼")	G16	25	5,0	2,5	-	-
	G25	40	3,4	4	-	-
DN40 (1 ½")	G40	65	3,6	6,5	-	-
	G65	100	6,8	10	-	-
DN50 (2") o DN50	G40	65	3,0	6,5	-	-
	G65	100	5,6	10	5	-
DN65	G65	100	1,6	8	-	-
	G100	160	3,8	16	8	-
DN80	G100	160	3,7	16	8	-
	G160	250	6,4	25	13	8
	G250	400	15,0	40	20	13
DN100	G160	250	2,1	-	13	8
	G250	400	5,0	-	20	13
	G400	650	11,4	-	32	20
DN150	G400	650	2,4	-	32	20
	G650	1000	6,4	-	50	32
	G1000	1600	16,0	-	80	50

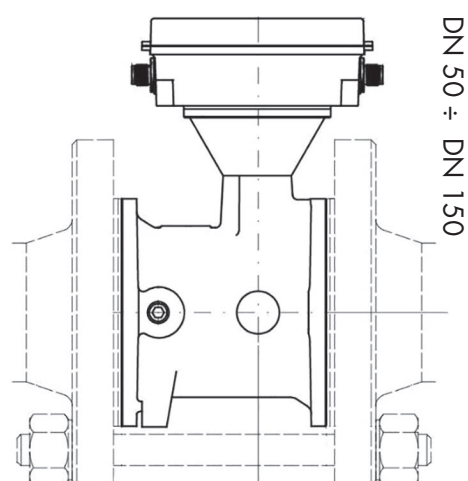
Available versions



Version with external thread
with 3 pcs. joint

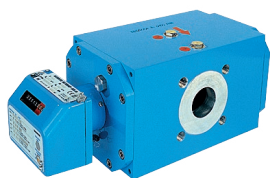


Version with internal thread



Version wafer

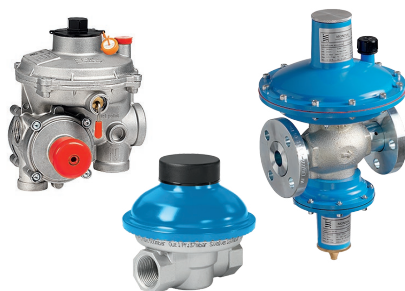
Product range



Rotary gas meters



Turbine gas meters



Gas pressure regulators



Smart electronic volume converter



Diaphragm gas meters



Smart meters

metrixitalia