



Technical data

		Load range		Max. operating pressure	Pulse generators				
DN [mm]	Size	Q _{min} [m ³ /hr]	Q _{max} [m ³ /hr]	P [bar]	LF (standard) 1 imp = m ³	2 nd LF (option) 1 imp = m ³	MF (option) 1 imp = m ³	HF (option) approx. f at Q _{max} [Hz]	
50	G 16	5	25	6	1	1	0,01	350	
50	G 25	4	40	6	1	1	0,01	550	
50	G 40	6	65	6	1	1	0,01	850	
50	G 65*	5	100	6	1	1	0,01	1300	
50	G 100*	8	160	6	1	1	0,01	1300	
80	G 65	10	100	6	1	1	0,01	200	
80	G 100	16	160	6	1	1	0,01	320	
80	G 160 *	13	250	6	1	1	0,01	500	
80	G 250 *	13	400	6	1	1	0,01	800	
100	G 160 *	13	250	6	1	1	0,01	440	
100	G 250 *	20	400	6	1	1	0,01	380	
100	G 400 *	20	650	6	1	1	0.01	610	

Available in MID version with obligatory verification

			Te	chnical data of C	Quanto Mor	nopipe EQZ			
		Load range		Max. operating pressure	Pulse generators				
DN [mm]	Size	Q _{min} [m ³ /hr]	Q _{max} [m ³ /hr]	P [bar]	LF (option) 1 imp = m ³	2 nd LF (option) 1 pulse = m ³	MF (option) 1 pulse = m ³	HF (option) approx. f at Q _{max} [Hz]	
40/50	Q 16	3	25	6	1	1	0,01	350	
40/50	Q 25	4	40	6	1	1	0,01	550	
40/50	Q 40	5	65	6	1	1	0,01	850	
40/50	Q 65	6	100	6	1	1	0,01	1300	
40/50	Q 100	10	160	6	1	1	0,01	1300	
80	Q 65	10	100	6	1	1	0,01	200	
80	Q 100	12	160	6	1	1	0,01	320	
80	Q 160	15	250	6	1	1	0,01	500	
80	Q 250	20	400	6	1	1	0,01	800	
100	Q 100	13	160	6	1	1	0,01	280	
100	Q 160	15	250	6	1	1	0,01	440	
100	Q 250	20	400	6	1	1	0,01	380	
100	Q 400	25	650	6	1	1	0,01	610	

Technical data of Quanto Monopipe EQZK								
		Load range		Max. operating pressure	Pulse generators			
DN [mm]	Size	Q _{min} [m ³ /hr]	Q _{max} [m ³ /hr]	P [bar]	LF (option) 1 imp = m ³	2 nd LF (option) 1 imp = m ³	MF (option) 1 imp = m ³	
40/50	Q 16	3	25	6	1	1	0,01	
40/50	Q 25	4	40	6	1	1	0,01	
40/50	Q 40	5	65	6	1	1	0,01	
40/50	Q 65	6	100	6	1	1	0,01	
40/50	Q 100	10	160	6	1	1	0,01	
80	Q 65	10	100	6	1	1	0,01	
80	Q 100	12	160	6	1	1	0,01	
80	Q 160	15	250	6	1	1	0,01	
80	Q 250	20	400	6	1	1	0,01	
100	Q 100	13	160	6	1	1	0,01	
100	Q 160	15	250	6	1	1	0,01	
100	Q 250	20	400	6	1	1	0,01	
100	Q 400	25	650	6	1	1	0.01	

Manufacturer: ELGAS, s. r. o., Semtínská 211, 533 53 Pardubice, Czech republic tel.: +420/ 466 414 500, 466 414 511 fax: +420/ 466 411 190 E-mail: sales@elgas.cz, http://www.elgas.cz

GAS METERS and QUANTO METERS

TRZ, EQZ, EQZK

for high precision gas volume measurement

Radial-Blade Turbine Gas Meter TRZ - for obligatory verification -



Technical characteristics

- · Principle of velocity measurement
- For measurements requiring
- obligatory verification (for MID versions)
- Accuracy: - from 0.2Q_{max} to Q_{max} ... +/-1 %
- below 0.20_{max} ... +/- 2 %
- Sizes G 16 up to G 400
- Dimensions DN 50, 80 and 100
- Different G-sizes per nominal width:
- DN 50: G 16 up to G 100
- DN 80: G 65 up to G 250
- DN 100: G 160 up to G 400
- · Operating pressure max. 6 bar · Meter element can be calibrated without
- monopipe fitting · Counting device is in a gas-free space
- · Low starting value
- High measurement stability and operational
- security due to high-quality, wear-resistant components
- self-lubricating ball bearings

- the meter

 - Designed for simple servicing (measurement-cartridge principle) • LF-pulse generator (standard) • Integrated flow strainer (standard) • Short straight inlet lengths $(2 \times DN)$ · Operation temperature range:
 - gas temperature
- from -10°C up to +60°C (+55°C) - ambient temperature
- - Options

 - brake without measuring range for intermitting operation
 - · Pulse generator:
 - 2nd LF-REED, it can be retrofitted without breaking the verification seal
 - MF-NAMUR
 - HF-NAMUR

· Pressure extraction connection inside

- from -10°C up to +60°C
- Over-run brake: Mechanical over-run

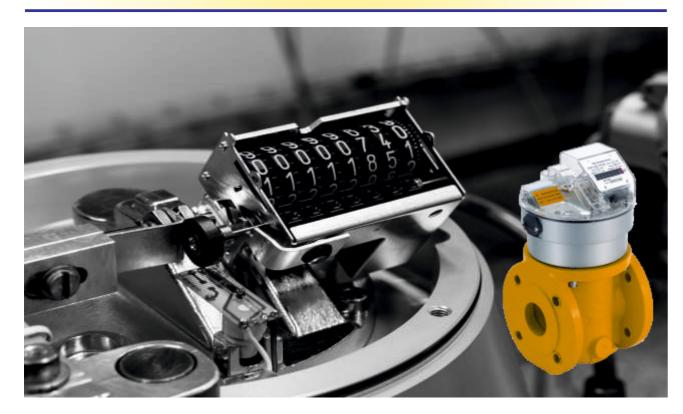
- Temperature sensor pockets in monopipe fitting
- Mounting and maintenance
- Mounting /dismounting of the meter element possible without disconnecting the monopipe fitting
- The monopipe fitting remaining in the pipe network enables mounting /dismounting of the meter element without tension from the pipe network
- Can be installed in any position from horizontal to vertical (turbine axis not suspended and roller counter axis always horizontal)

Norms and approvals · Developed and produced according to Quality Standard ISO 9001:2008

- International / national type approvals MID TCM 143/13-5110
- EC registration cerfticate (€ 0085



Quanto monopipe EQZ - for internal and industrial measurements -



Technical characteristics

- · Principle of velocity measurement
- For measurements not requiring obligatory verification
- Accuracy:
- from 0.2Q_{max} to Q_{max} ... +/-1.5 %- below 0.20_{max} ... +/- 2 %
- Sizes Q 16 up to Q 400
- Dimensions DN 40, 50, 80 and 100
- · Different Q-sizes per nominal width:
- DN 40: Q 16 up to Q 65
- DN 50: Q 16 up to Q 100
- DN 80: Q 65 up to Q 250
- DN 100: Q 160 up to Q 400
- · Meter element can be calibrated without monopipe fitting
- · Pressure extraction connection inside the meter
- High measurement stability and operational security due to high quality, wear-resistant components

- Self-lubricating ball bearings
 - · Operating pressure max. 6 bar
 - Counting device is in a gas-free space
 - Low starting value
 - Designed for simple servicing (measurement-cartridge principle)
 - Standard integrated flow strainer • Short straight inlet lengths $(2 \times DN)$
 - Operation temperature range:
 - gas temperature -10°C up to +60°C - ambient temperature -10°C up to +60°C

Options

- Over-run brake: Mechanical over-run brake without measuring range for intermitting operation
- · Pulse generator:
- LF-REED
- 2nd LF-REED, it can be retrofitted
- without breaking the verification seal
- MF-NAMUR, HF-NAMUR

• Temperature sensor pockets in monopipe fitting

Mounting and maintenance

- Mounting/dismounting of the meter element possible without disconnecting the monopipe fitting
- The monopipe fitting remaining in the pipe network enables mounting/dismounting of the meter element without tension from the pipe network
- Can be installed in any position from horizontal to vertical (turbine axis not suspended and roller counter axis always horizontal)

Norms and approvals

- · Developed and produced according
- to Quality Standard ISO 9001:2008
- EC registration cerfticate (€ 0085

Quanto monopipe EQZK - for measuring of sewer gas -



Technical characteristics

- · Principle of velocity measurement · Special version for measuring of sewer
- gas (without verification)
- Internal surface protected against
- corrosion with special coating • Wear-resistant ceramic ball bearings
- Accuracy:
- from 0.2Q_{max} to Q_{max} ... +/-1.5 %
- below 0.2Q_{max} ... +/- 2 %
- Sizes Q 16 up to Q 400
- Dimensions DN 40, 50, 80 and 100
- Different Q-sizes per nominal width:
- DN 40: Q 16 up to Q 65
- DN 50: Q 16 up to Q 100 - DN 80: Q 65 up to Q 250
- DN 100: Q 160 up to Q 400
- · Operating pressure max. 6 bar
- · Calibration without fitting disassembly
- Pressure extraction connection inside the meter
- · Counting device is in a gas-free space
- Low starting value
- · Designed for simple servicing
- (measurement-cartridge principle) Standard integrated flow strainer
- Short straight inlet lengths (2 \times DN)
- Operation temperature range:
- gas temperature -10°C up to +60°C
 - ambient temperature -10°C up to +60°C monopipe adaptors available on request).

- MF-NAMUR Mounting and maintenance

Options Pulse generator:

- LF-REED

- 2nd LF-REED

- · Mounting/dismounting of the meter element possible without disconnecting the monopipe fitting
- network enables mounting /dismounting of the meter element without tension from the pipe network
- Can be installed in any position from horizontal to vertical (turbine axis not suspended and roller counter axis always horizontal)
- Norms and approvals · Developed and produced according to Quality Standard ISO 9001:2008

Corrosion / Guarantee All components of the special version designed for bio and sewer gas have a surface treatment, a so-called passive corrosion protection (surface treated



For the operation of EQZK with sewage gas we cannot grant any warranty of durability as the chemical condition of the gas has an important influence to the working life of the meter.

- Factors as:
- sulfurated hydrogen
- humidity
- dirt
- dew point of gas lead often

to an unknown aggressiveness of the gas Ammonia in the sewer gas attack all nonferrous metals. Therefore, all surfaces of meter parts in contact with the biogas are PTFE-coated (Teflon).

Installations and operations

- The sewer gas meter EQZK may not be used upstream the gas-storage unit
- The gas should be filtered before passing the meter, so that the gas can be measured in dry condition and without impurities
- The meter should not be installed at the lowest point of an installation in order to avoid any accumulation of condensate inside the meter
- In case of strong condensation a condensate drain should be provided upstream and downstream the meter

• The monopipe fitting remaining in the pipe

EC registration cerfficate (€ 0085