Gallus 2100 TCE

THE ONLY ELECTRONIC TEMPERATURE COMPENSATED DIAPHRAGM GAS METER IN THE WORLD!



Highest available accuracy using temperature conversion and error curve correction, calculation of conversion factor with all parameters and so-phisticated temperature measurement.

Prepared for AMR - Automatic Meter Reading

Flonidan DC A/S

Flonidan DC, located in Horsens Denmark, is a leading manufacturer of gas conversion devices, automatic meter reading devices, temperature compensated domestic gas meters and gas stations. After the recent acquisition of Dancontrol, Flonidan DC has the largest range of gas volume conversion devices worldwide. Flonidan DC is 50% owned by the Danish AVK-group.

New trends in domestic meter reading

Flonidan DC presents a diaphragm gas meter with electronic temperature conversion and error curve correction.

Better and economical accuracy with error curve correction and temperature conversion with a new temperature measurement concept

Temperature Conversion

The basic element is a standard quality diaphragm gas meter measuring unit. The temperature converter is replacing the mechanical counter.

*Patent pending

www.flonidan.com

Flonidan DC has developed a unique temperature measurement system^{*}, which ensures a precise measurement of the average gas temperature inside the measuring unit, indepent of the inlet and ambient temperature changes. Correct measurement of the gas temperature may improve the accuracy with up to 3%.

Error Curve Correction

Flonidan developed an electronic error curve correction system, correcting the measured curve of each individual gasmeter on 4 points.

Gallus 2100 TCE offers:

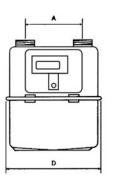
- Standard volume or energy in the display (Sm³, Nm³ or E) by including gas pressure, altitude above sea level, gas properties and temperature in the calculation.
- High accuracy by curve correction.
- Loggings showing consumption, flow and alarm status, allowing which allows efficient troubleshooting and traceability.
- Prepared for Automatic Meter Reading, preequiped with both pulse and serial output.



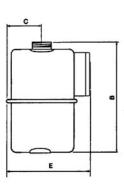
TECHNICAL SPECIFICATIONS



Meter sp Meter size:	ecifications:				Testing:				
Size	Flowrate m ³ /	h	Press. drop/mbar, max		• 0 _{min}				
	Min.	Max.	N-gas air	Air	• 0,2 0 _{max} • 0 _{max}				
G 1.6	0,016	2,5	0,4	0,55	 Approvals: Type approved by DANAK (Danish Accreditation Authority). 				
G 2.5	0,025	4,0	0,6	0,8					
G 4	0,040	6,0	1,0	1,5	Conformity to: • EN 1359 including Firesafe (T-marked) and difference in				
	oressure: operating pressur ations of elect			turo	ambient- and gas temperature (paragraph B2.3). MID-2004 Display:				
	on device:		ine tempera	luic	9 digit, 0, 3 or 4 decimals (configurable).				
Gas and an -25 +55°C	nbiant temperatuı ;	re:			Option card (built-in option card must be ordered separately): <u>Pulse output:</u> 2 pulse outputs. Can be selected to V _b or V _m or alarm by use of setup				
Data log: 20 monthly	loggings of conve	erted volume	including time s	stamp.	software. Pulse length: 125 msec. 1I - 10I - 100l per pulse. <u>Serial out:</u> Cable for RS-232 compatible connection can be delivered. Protocol description can be delivered on request. Total accuracy: Converted volume: • Q _{min} - 0,1 Q _{max} : 2% • 0,1 Q _{max} - Q _{max} : 1% • MID Class 1 Enclosure, index: IP65				
Alarm log: 5 latest ala volume.	rms including time	e stamp, alar	m cause and tot	al converted					
Max flow I The 5 max.	og: registered flows,	including tim	ne stamp.						
	bility calculation : r calculated from		r Z/Z _B . Other on	request.					
Very user f	ion software: riendly PC progra data logger.	m to parame	terization, meter	reading and					
	e time: alculated 20 years ange without brea		al.						



2



Model	A mm	B mm	C mm	D mm	E mm	kg	Connections (ISO 228)
2 pipe 110	110	210	67	190	158	1,45	DN 20 G7/8" (ISO 228/1)
2 pipe 160	160	227	80	240	158	1,6	DN 20 G7/8" (ISO 228/1)
2 pipe 220	220	270	72	283	172	2,6	DN 20 G3/4″
1 pipe	co- axial	230	67	190	158	1,6	DN 25 (DIN 3376)

Other on request.

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