

Technische Information für GAS-CADA

Die grundlegende Aufgabe eines Mengenumwerter ist es das gemessene Volumen vom Gaszähler auf Normbedingungen - z.B. 15°C und 1,013bar - umzuwandeln. Daher sind die Mengenumwerter mit einem oder mehr Temperatursensoren und Drucksensoren ausgerüstet. Gas-Mengenumwerter können mehr.

Verfügbare Optionen sind:
unterschiedliche Druckbereiche, Erzeugung von Impulsen, Bereitstellung von Alarmsignalen, Speichen von historischen Daten und unterschiedliche Kommunikationsmöglichkeiten.

Die Stromversorgung kann mit Batterien oder externer Stromversorgung erfolgen. Einige Geräte bieten spezielle Kommunikationsprotokolle und kundenspezifizierte Berechnungen an, um spezifische Ausgaben zu erzeugen (zum Beispiel für die Oderationskontrolle oder Analogausgänge)

Die nachfolgende Vergleichstabelle zeigt Ihnen die Hauptunterschiede zwischen den Lösungen die vermm tec anbietet.

Description	PTZ-BOX V2	GAS-CADA
Models	With pulse outputs Without pulse outputs	Zone 1 and 2 Zone 2 only
Suitable for	All gas meters that provides pulses at a low frequency	All gas meters that provides (single or dual) stream pulses
Enclosure	100 x 120 x 70 mm 1.2 kg Aluminium IP65	160 x 160 x 90 mm 2.5 kg Aluminium IP65
Operating conditions	Temperature -25 to +60 °C Optional -40 to +60 °C Storage -40 to +60 °C	Temperature -25 to +60 °C Storage -40 to +85 °C
Power	Intelligent Lithium battery Battery lifetime under spec. cond. 6 years Optional external power supply	Intelligent Lithium battery Battery lifetime under spec. cond. 6-8 years Optional external power supply backup batt. life 10 years
No of gas meters	1	1 or 2
No of pulse inputs	2	4
Kind of pulse inputs	Low freq. Reed or Wiegant max 4 Hz	Low freq. Reed or Wiegant max 10 Hz or High freq. NAMUR signals max 5kHz
Other digital inputs	1 tamper switch or other contact	8 minus the number of used pulse inputs.
Pressure sensors	1 Analogue Piezo resistance sensor; internally mounted 8 different ranges between 0.8 – 70 bar(a)	1,2 or 3 digital pressure transmitters; internally or externally mounted 5 different ranges between 0.8 – 70 bar(a)
Temperature sensors	1 Pt 1000 sensor fixed mounted to the device	1,2 or 3 digital temperature sensors, cable mounted to the GAS-CADA
Sample frequency	With battery operation: once per 10, 15, 20, 30 sec. At line power every 2 sec.	settable between once ever 1 – 30 sec.
Display	10 digit LCD, showing actual values, settings and alarms	2 rows, 16 characters LCD actual values, stored values, settings and alarms
Calculation	According to EN 12405 compressibility: AGA8 G1 or G2 AGA NX 19 (Mod) SGERG 88 fixed value	According to EN 12405 compressibility: AGA 8-92 (full comp.) AGA8 G1 or G2 AGA NX 19 (Mod) SGERG 88 fixed value
Accuracy	< ±0.15% under ref. cond. < ±0.50% within full range	< ±0.15% under ref. cond. < ±0.50% within full range
Memory:		
Monthly	21 records (months)	25 records (months)
Daily	3072 records (days)	400 records (days)
Custom	25344 rec. of 9 values or 11264 rec. of 20 values	Free selectable values intervals selectable between 1

Status Settings	with intervals of 5/10/15/20/30/60 min. 500 records 500 records	sec to 1 hour No of records depend on selections 2000 records 500 records
Outputs	Optional: Pulse for unconverted volume Pulse for converted volume Pulse at configurable alarms	4 output channels each configurable for pulse streams, status or for analogue outputs (with optional dedicated converter)
Communication	Infra red port RS232/485 port Optional GPRS/GSM modem and other communication modules available	Infra red port Zone 2 model: RS232/485 Zone 1+2 model: RS485 Optional GPRS/GSM modem and other communication modules available
Protocols	Standard VT protocol ModBus	Standard VT protocol ModBus Many other protocols for data- acquisition available
Alarms	Configurable	Configurable
Intrinsically safety	II 2G EEx ia IIC T4/T3 ATEX certified	Zone 2 model: II 3(2)G Eex nA [ia] IIC T4/T3 Zone 1 + 2 model: II 2G EEx ia IIC T4/T3 ATEX certified
Metrological approvals	NMi (Netherlands Measurements Institute) MID (Measurement Instruments Directive) CE Others	NMi (Netherlands Measurements Institute) MID (Measurement Instruments Directive) CE Others
Protection	Seals Password protection	Seals Password protection
Software	Standard software (PTZBcomm) for configuration and (automatically) read out supplied free of charge. Software enables to write data in many database or spreadsheet files.	Standard software (GASCcomm) for configuration and (automatically) read out supplied free of charge. Software enables to write data in many database or spreadsheet files.
Special information	Low priced high quality device	User programmable, designed for communication with DCS and Scada systems Extra sensors connectable