

ESS III Gas

Data logger for pressure and temperature

AREAS OF APPLICATION

Measuring and saving of

- fault analyses in pipe systems
- Pipe system calculations
- Leak tests
- Functional checks in gas pressure regulating system

SAFETY CLASSES

Explosion safety Ex II 2G EEx ib IIC T4
Enclosure class IP67

ENCLOSURE, CONNECTIONS

Mass Width: 108 mm
Depth: 80 mm
Height: 162 mm

Weight 1,2 kg

Connections ½ inch external screw thread
⅜ inch internal screw thread
Other connections on request

SCOPE OF MEASUREMENT

Standard measuring ranges, ordinary

Relative 0... 100 mbar
Relative 0... 250 mbar
Relative 0... 1 bar
Relative 0... 2,5 bar
Relative 0... 10 bar
Absolute 0... 25 bar
Absolute 0... 100 bar

Standard measuring range, differential

0... 100 mbar
0... 1 bar
0... 10 bar

Other measuring ranges on request

2,5 mbar ... 600 bar

Measuring accuracy

± 0,09% of MBEW

Temperature error

Less than +/- 0.05% per 10 K
From -20°C to + 40°C in the centre
Or stability <= 5 mbar per 15 K as per G469



OPERATION

Battery capacity 8 years for 1 min. cycle
1 year for the 1 sec cycle
1-3 months for the 125 msec cycle

Maintenance interval

1-3 years calibration
1 year DKD or
factory calibration possible

FUNCTIONAL SCOPE

Display of:

Actual values
Max. / min. values
Differential value
Memory utilization
Battery status

Setting of:

Time and date
Measuring cycle 125 msec ... 6 hrs.
Lower / upper alarm threshold
Averaging 2 ... 600 values
Resolutions
Name of the measuring point (30 characters)
Storage procedure (rolling / static)
Power save mode

Setting via:

Keyboard
Interface cable and the TfsWin III software

Storage

250 000 single values
Corresponds to a memory volume of several years in the sec measuring cycle and can be achieved with the data compression process

Software:

TfsWin III for data transfer and presentation
EsapPro III for the presentation and analysis of measuring data
Can be delivered as a single-user application as well as server application