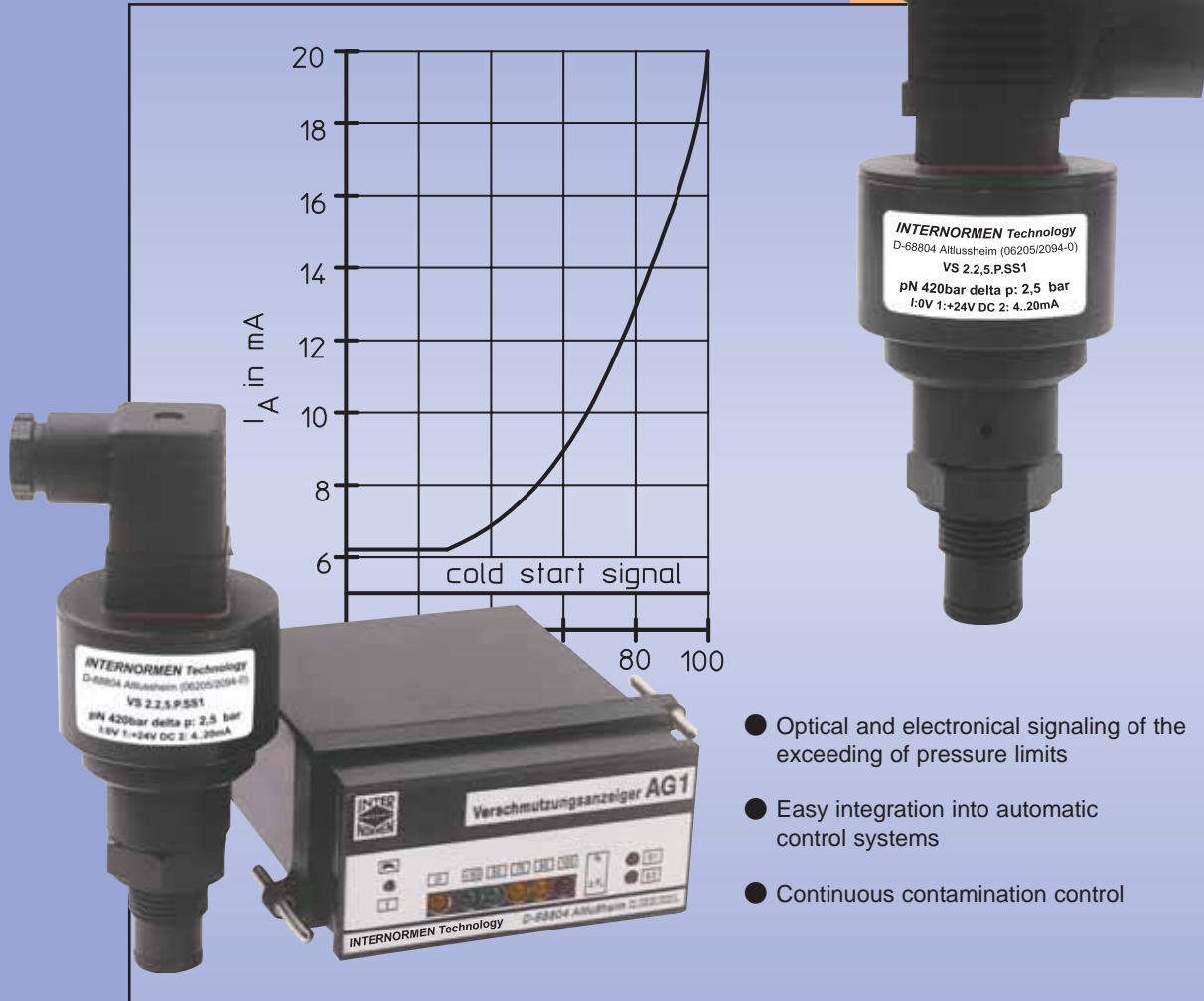


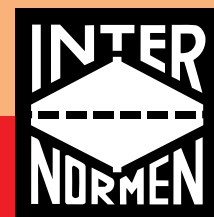
INTERNORMEN

Intelligent Filter Control by Electronics



Electronical Clogging Sensors and
Indicating Systems for Hydraulic
and Lubricating Oil Filters

internormen
electronics



Electronical Clogging Sensor VS 1

- Continuous pressure difference measuring
- Optimal utilization of the filter elements based on a high definition of the measure value within the final measure range
- Early identification of increased contamination inside the system
- Cold start indication up to approx. 77°F
- Suppression of pressure peaks
- Dust-proof and splash-proof aluminium or stainless steel housing
- Interference-free signal transmission over longer distances
- Interchangeable with clogging indicators type AE and type AO

Type code (ordering example):

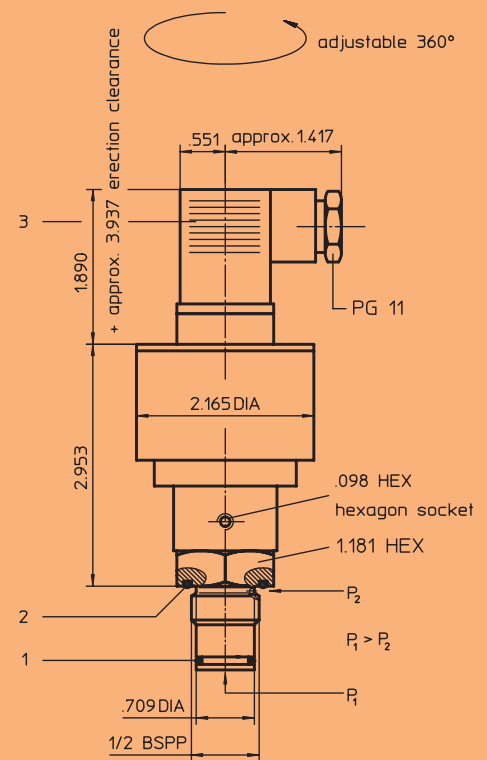
VS1.	1,5.	P.	-.	GS	-.	E
1	2	3	4	5	6	7

- 1** | VS 1 = electronical clogging sensor with analog 4...20mA output signal
- 2** | 1,5 = pressure difference 22 PSI range
2,5 = pressure difference 36 PSI range
5,0 = pressure difference 73 PSI range
6,0 = pressure difference 87 PSI range } Δp -nominal
- 3** | Sealing material:
P = Nitrile (NBR)
V = Viton (FPM)
- 4** | VA = stainless steel
- = standard version
- 5** | GS = line adapter DIN 43650-A, three channel plug
- 6** | - = standard
- 7** | E = 0 volt free of grounding
G = 0 volt grounded

Technical Data:

max. operating pressure: 6000 PSI
 screw thread: G 1/2
 distribution voltage: 24V DC \pm 20%;
 residual ripple: < 10%
 temperature range: +14°F...+212°F (fluids)
 +14°F...+176°F (electronics)
 connection: according to DIN 43650-A
 three-channel plug
 line adapter: GDM 3011
 output signal: 4...20mA; max. load: 400 Ohm
 error of measurement: \pm 5% of the final value (Δp -nominal)
 system of protection: IP 65 according to DIN 40050

Clogging Sensors VS 1 ... VS 2 ... GS



Indicating System AG 1 (control panel set)

- Evaluation set for current signals emitted by VS 1
- Pressure difference indication by LED-band
- 2 x relay switching contacts (75% und 100% of the Δp -nominal range)
- Indication of switching position by LED
- Cold start indication by LED
- Adjustable pressure peak suppression

Technical Data:

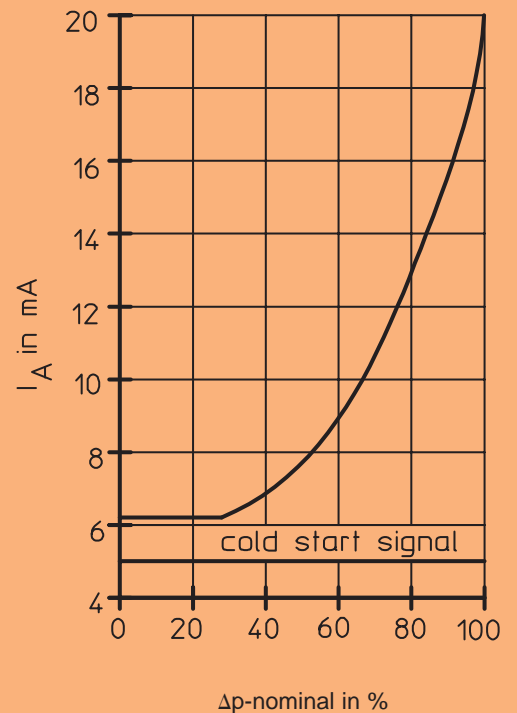
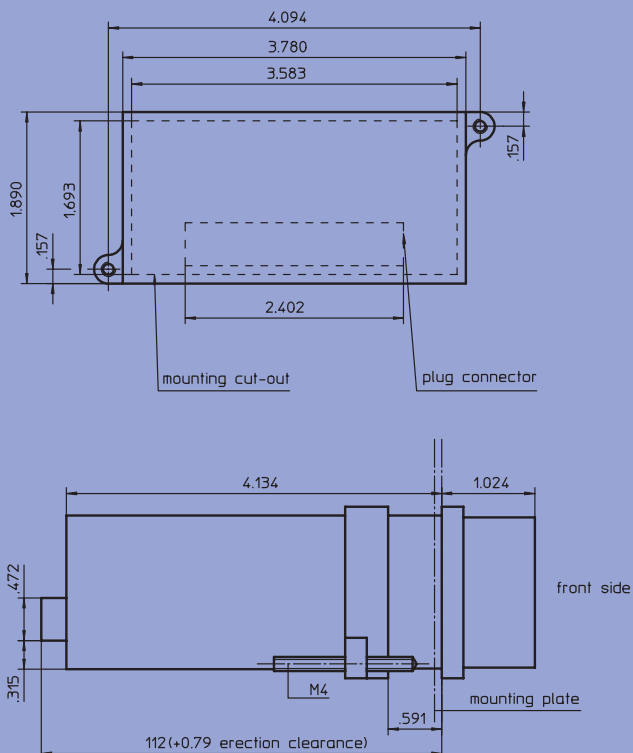
distribution voltage:	24V DC \pm 20%; residual ripple: < 10%
contacts:	2 x contact maker; U_{max} : 240V AC I_{max} : 0,5A P_{max} : 10 Watt
temperature range:	32°F...158°F
system of protection:	IP 53 (only front side with transparent protection cap)
housing dimensions:	according to DIN 43700 (see illustration)

Type code (ordering example):

AG 1
1

1 AG 1 = electronic display unit with clear protective cover mounts remote in control cabinets to be used with electronic clogging sensor VS 1

Indicating system AG 1



REQUEST DATA SHEETS NO.1617 FOR VS 1/AG 1 AND NO.1618 FOR VS 2/SS 1 FOR FURTHER DETAILS.

MODERN LABORATORIES WITH UP-TO-DATE TEST EQUIPMENT GUARANTEE BEST QUALITY.

