SAFETY INSTRUCTIONS

- Skilled personnel must have carefully read and understood the operating instructions prior to beginning any work.
- Please read this document prior to set-up of the unit. Ensure that the product is suitable for your application without any restrictions.
- Please read the label / code on sensor prior to install the sensor.
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property can occur.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects in your application. That is why installation, electrical connection, set-up, operation and maintenance of the unit must only be carried out by qualified personnel authorized by the machine operator.
- To guarantee the correct condition of the device for the operating time, it is necessary to use the device only for media to which the wetted materials are sufficiently resistant.
- The responsibility whether the measurement devices are suitable for the respective application lies with the operator. The manufacturer assumes no liability for consequences of misuse by the operator. Improper installation and use of the devices result in a loss of the warranty claims.

FUNCTIONS & FEATURES

Pressures

The pressure transmitter is used for measuring pressure. The measured pressure is output as an electrical signal. Proper pressure range should be selected based on application requirement.

Pressure Ranges

<table>
<thead>
<tr>
<th>Pressure Ranges</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>0-50 to 6-600 bar</td>
<td>0-725 to 0-8700 psi</td>
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Supply Voltage/Output

- 8-32VDC for 4-20mA output; 5±0.25VDC for 0-5.45VDC output
- 12-32VDC for 0-10VDC output; 8-32VDC for 1-5VDC output

Output Load

- ±0.1% for voltage output, ≤ (Vsup-V)/20mA for current supply

Output Response Time

- <2 ms

Overvoltage Protection

- 36 VDC

Reverse Voltage Protection

- Yes

Short Circuit Protection

- Yes

Insulation Resistance

- > 100 MΩ @ 500V

EMC

- IEC 61326-1 and EN 61326-2-3

Dielectric Strength

- 500 VAC

Enhanced Radiated Immunity

- 30V/m(80MHz~2GHz)

Enhanced ESD

- ±8KV Contact, ±15KV Air

Performance

- ±0.5%FS±25°C
- ±1.5%FS @0°C to 85°C

Operating Endurance

- >100,000 cycles

Operating Ambient Temperature

- -40°C to +125°C

Operating Media Temperature

- -40°C to +125°C

Storage Temperature

- -40°C to +125°C

Pressure Port Connections

<table>
<thead>
<tr>
<th>Pressure Port Connections</th>
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<tbody>
<tr>
<td>7/8-14 UNF-2A (MALE)</td>
<td>60 max.</td>
</tr>
<tr>
<td>1/4 A4 DIN 3822-E</td>
<td>30 max.</td>
</tr>
<tr>
<td>1/4-18 PT (R1/4)</td>
<td>2 max.</td>
</tr>
<tr>
<td>1/4-18 NPTF</td>
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<tr>
<td>M12x1.4-4 POLE CONNECTOR</td>
<td>13</td>
</tr>
<tr>
<td>DIN 175301-803A 18mm CONNECTOR</td>
<td>40 max.</td>
</tr>
<tr>
<td>DEUTSCH DT04-3P CONNECTOR</td>
<td>4 max.</td>
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</table>

INSTRUCTIONS & SAFETY INFORMATION

- The pressure sensor detects the system pressure and converts it into an analog output signal.
- These operating instructions contain important information on handling the instrument.
- All safety instructions and work instructions should be observed to prevent injury or harm.
- Observe the relevant local accident prevention regulations and general safety regulations for the instrument's range of use.
- The operating instructions are part of the product and must be kept in the immediate vicinity of the instrument and readily accessible to skilled personnel at any time.
- Pass the operating instructions on to the next operator or owner of the instrument.
- The general terms and conditions contained in the sales documentation shall apply.
- Subject to technical modifications.

Explanation of Symbols

WARNING! ...indicates a potentially dangerous situation that can result in serious injury or death, if not avoided.

CAUTION! ...indicates a potentially dangerous situation that can result in light injury or damage to property or the environment, if not avoided.

INFORMATION ...points out useful tips, recommendations, and information for efficient and trouble-free operation.

SPECIFICATIONS

Electrical

- Pressure Ranges: 0-50 to 6-600 bar (0-725 to 0-8700 psi)
- Pressure Reference: Gauge
- Supply Voltage/Output: 8-32VDC for 4-20mA output; 5±0.25VDC for 0-5.45VDC output; 12-32VDC for 0-10VDC output; 8-32VDC for 1-5VDC output; 8-32VDC for 0-5.4VDC output
- Output Load: ±0.1% for voltage output, ≤ (Vsup-V)/20mA for current supply
- Output Response Time: <2 ms
- Overvoltage Protection: 36 VDC
- Reverse Voltage Protection: Yes
- Short Circuit Protection: Yes
- Insulation Resistance: > 100 MΩ @ 500V
- EMC: IEC 61326-1 and EN 61326-2-3
- Dielectric Strength: 500 VAC
- Enhanced Radiated Immunity: 30V/m(80MHz~2GHz)
- Enhanced ESD: ±8KV Contact, ±15KV Air

Physical

- Random Vibration: IEC 60668-2-6, 30g (10...2000Hz)
- Mechanical Shock: EN 60668-2-27, 500g
- Drop (any Axis): 1m
- Ingress Protection: IP65 - IP67 (see connector options)
- Media Compatibility: Fluids and gases compatible with 17-4PH stainless steel

Performance

- Pressure (Best Fit Straight): ±0.5%FS±25°C
- Pressure (Total Error Band): ±1.5%FS @0°C to 85°C
- Operating Endurance: >100,000 cycles
- Operating Ambient Temperature: -40°C to +125°C
- Operating Media Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +125°C

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