2-wire transmitter with integrated power supply

Output signal 0 ... 20 mA or 4 ... 20 mA

Power supply
— 24 V or 230 V

HART® communication at the transmitter is also possible
Four-Wire Add-On Unit for Pressure Transmitters
Series 265xx / 267xx / 269xx

The four-wire add-on unit for pressure transmitter of the series 265xx / 267xx / 269xx provides a power supply device that is built right onto the transmitter. This unit is equipped with a separator between power supply and output signal. This construction enables using the two-wire transmitter as a four-wire transmitter with the option of either 24 V or 230 V power supplies. Output signal can be selected: 0...20 mA or 4...20 mA. HART communication direct to the transmitter is possible. The add-on unit is mounted to the transmitter at the factory.

Technical data

Input
4...20 mA

Supply voltage
min. 14V at 20 mA

Output
0(4)...20 mA (selectable)

Characteristic
increasing, linear

Current limitation
approx. 25 mA

Maximum load
750 Ω

Ripple
max. 1 % v. input at max. load

Power supply
AC 230V (+6 % / -10 %):
47...63 Hz;
max. power consumption: ≤ 6 VA
DC 24 V (18...32 V):
Allowable ripple is 2.5 Vpp within above-mentioned limits;
max. power consumption: ≤ 3 W

Deviation from characteristics
max. 0.15 % v. input

Time constant t90
max. 30 ms

Influence due to
Ambient temperature ≤ 0.1% / 10K
Load ≤ 0.1%
when changing from 0 % to 100 %
Power supply ≤ 0.1% during a 10% change

Galvanic separation between
power supply and input
power supply and output

Insulation voltage according to DIN EN 61 010
AC 250 V

Pollution degree
2

Overvoltage category
II.

Test voltage
UC: 1.5 kV
AC: 2.3 kV

EMC tested according to
DIN EN 61 326

Ambient conditions
Operating temperature
-20 °C - +80 °C
Storage temperature
-50 °C - +85 °C
Condensation allowed

Housing
Protection class (DIN40040) IP54
Material Cast aluminium, epoxy resin coat
Dimensions H x W x D: 125 x 80 x 60 mm

Weight
approx. 0.7 kg

Colour
RAL 7032,
Smooth surface

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AC: 2.3 kV

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-20 °C - +80 °C
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Four-Wire Add-On Unit for Pressure Transmitters
Series 265xx / 267xx / 269xx

**Dimensional drawings**

A radius of 70 mm free space is required to swing open the local key unit cover

1 Transmitter
2 Electrical connection
3 Four-wire add-on unit

Dimensions “a” and “b” are dependent on range and process connection:

<table>
<thead>
<tr>
<th>Process connection</th>
<th>Ranges: 60 mbar</th>
<th>Ranges: ≥ 2.5 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2-14NPT male thread</td>
<td>a = 142</td>
<td>a = 147</td>
</tr>
<tr>
<td>1/2-14NPT female thread</td>
<td>b = 168</td>
<td>b = 173</td>
</tr>
<tr>
<td>with a range of 600 bar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spigot DIN EN 837-1 G 1/2 B (HP) for convex seal</td>
<td>a = 141</td>
<td>a = 147</td>
</tr>
<tr>
<td>Front bonded diaphragm</td>
<td>b = 167</td>
<td>b = 173</td>
</tr>
<tr>
<td>For ball valve connection</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

A radius of 70 mm free space is required to swing open the local key unit cover

1 Transmitter
2 Electrical connection
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A radius of 70 mm free space is required to swing open the local key unit cover

1 Transmitter
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### Ordering Information

The following catalog numbers are appended to the catalog number of each respective transmitter. The transmitter 265xx / 267xx / 269xx fitted with the four-wire add-on unit must use the DIN housing with electr. connection M 20x1.5 (amplifier housing ordering code J). The transmitter 265Gx / Ax must use the barrel type housing with electr. connection M 20x1.5 (amplifier housing ordering code B)

<table>
<thead>
<tr>
<th>Amplifier housing accessories</th>
<th>Ordering number</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 24 V / 0...20 mA</td>
<td></td>
<td>A4</td>
</tr>
<tr>
<td>DC 24 V / 4...20 mA</td>
<td></td>
<td>A6</td>
</tr>
<tr>
<td>AC 230 V / 0...20 mA</td>
<td></td>
<td>A5</td>
</tr>
<tr>
<td>AC 230 V / 4...20 mA</td>
<td></td>
<td>A7</td>
</tr>
</tbody>
</table>

**Electrical connection of the add-on unit**

- Threaded cable gland M 20 x 1.5
- Plug Han 8U (only with DC 24 V power supply) 1)
- Plug Han 7D (only with DC 24 V power supply) 1)

1) Ordering code U3 or U5 requires the ordering option "plug" for the transmitter electronic housing.
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