# Hogller ®

# HOM – Low Pressure Transmitter

## Description

The HOM offers the robust design with stainless steel housing of the HOT but uses a silicon based sensitive measuring cell for low pressure applications from 10 mbar to 500 mbar.

With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the HOM assures trouble free operation at temperatures up to 85°C.


## Features

- High strength, rugged stainless steel design
- Pressure Reference: Gauge
- High resistance to shock and vibration
- Pressure ranges: 0 ... 500 mbar
- Signal output: 4 ... 20 mA
- Total error @ RT: < 1 % FS
- Measuring medium: -40 ... +85 °C
- Electrical connections: DIN 175301-803 C
- Pressure connection: G 1/4" Male
- IP 65

## Applications

- Air and gas pressure monitoring
- laboratory and test
- Water treatment
- HVAC & Refrigeration
- Hydraulics and pneumatics
- Filter technology
- Leak detection
- Low pressure liquid and hydrostatic pressure measurements

# Specifications

## Input Pressure Range

| | | | | | |
|---|---|---|---|---|---|
| Nominal Pressure Gauge [mbar] | 60 | 100 | 250 | 400 | 500 |
| Overpressure [Max] [mbar] | 120 | 200 | 500 | 800 | 1000 |
| Burst Pressure [Min] [mbar] | 180 | 300 | 750 | 1200 | 1500 |

## Performance

| | | |
|---|---|---|
| Total error @ RT (1) | 1.0 % FS | (1) Total accuracy in BFSL includes non-linearity, hysteresis, offset and gain failures |
| Total error (from -10 ... +50 °C) (2) | 1.5 % FS | Total accuracy (1) ,Repeatability and temperature effects (new parts, max. drift per year 0.2 % FS) |
| Total error (from -40 ... +105 °C) (2) | 3.5 % FS | |
| Response time | Max. 2 ms | Measured from initial value to output at 90 % |
| Pressure cycles | > 10 million | |

## Environment

### Temperature [°C]:

| | |
|---|---|
| Measuring medium<br>Ambience<br>Storage | -40 ... +85<br>-40 ... +85<br>-40 ... +125 |
| Shock | 1000 G, 11 msec., 1/2 Sine |
| Vibration | 25 G peak, 20 to 2000 Hz |
| Ingress protection | IP 65 |

## Electronics

| | | |
|---|---|---|
| Supply / Output | 10 ... 32 VDC → 4 ... 20 mA | |
| Supply current | < 22 mA | |
| Recommended load resistor | $R_{max}$ = [(VS – 10) / 20 mA] kΩ | |
| Isolation resistance | > 100 MΩ | Measured between case and pins (VDC 50V for one minute) |
| Reverse voltage protection | YES | |

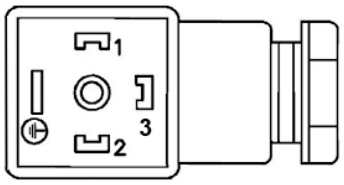
## Mechanics

| | |
|---|---|
| Housing incl. wetted parts | Stainless steel housing, Plastic s-carrier , Si-membrane, NBR-O-Ring |
| Pressure port | Male - G 1/4" |

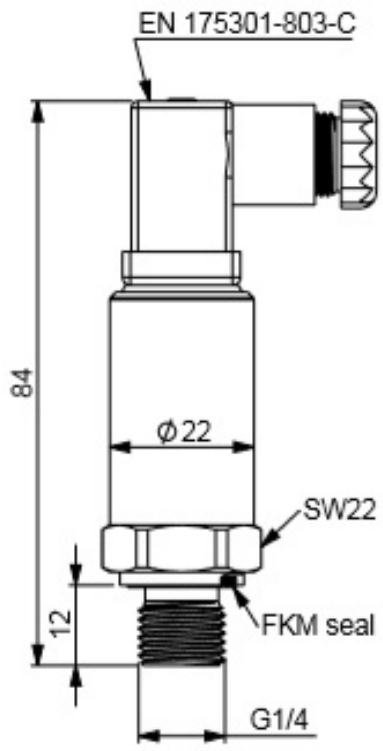
## Miscellaneous

| | |
|---|---|
| Weight | Approx. 140 g |
| Mounting Force | Max. 25 Nm |
| Calibration | Output is Calibrated at Zero & Full Scale |

# Wiring

| Electrical Connection | Output | PIN 1 | PIN 2 | PIN 3 | PIN 4 | ⏚ |
|---|---|---|---|---|---|---|
|  DIN EN 803 175301-C | 4 – 20 mA | + Supply | Current Output - | N/A | - | earth |
| | 0 – 10 VDC | + Supply | - Supply | Output + | - | earth |
| | 0 – 5 VDC | + Supply | - Supply | Output + | - | earth |

# Dimensions




HOM xx xxxx FGCK
(Male - G 1/4")

# Ordering code

| HOM | ☐☐ | ☐☐☐☐ | ☐ | ☐ | ☐ | ☐ |
|---|---|---|---|---|---|---|
| **Series** | | | | | | |
| HOT (Industrial Pressure Transmitter) | | | | | | |
| HOF (Flush Diaphragm Pressure Transmitter) | | | | | | |
| HOM (Low Pressure Transmitter) | | | | | | |
| HOD (High Pressure Transmitter) | | | | | | |
| HOX (Explosion Proof Pressure Transmitter) | | | | | | |
| **Output** | | | | | | |
| 4 ... 20 mA / 2-wire | H | | | | | |
| 4 ... 20 mA / 2-wire / Compound | HC | | | | | |
| 0 ... 10 V / 3-wire | J | | | | | |
| 0 ... 10 V / 3-wire / Compound | JC | | | | | |
| 0 ... 5 V / 3-wire | F | | | | | |
| **Pressure Range** | | | | | | |
| | | Please check the Specifications table | | | | |
| **Pressure Unit** | | | | | | |
| bar | | | F | | | |
| Kpa | | | R | | | |
| psi | | | P | | | |
| **Pressure connection** | | | | | | |
| Male - NPT 1/4" | | | | L | | |
| Male - G 1" | | | | N | | |
| Male - G 1/2" | | | | W | | |
| Male - G 1/4" | | | | G | | |
| Male - M18×1.5" | | | | M | | |
| **Electrical connection** | | | | | | |
| DIN EN 803–175301–C | | | | | C | |
| M12x1 4-pin | | | | | M | |
| **Pressure type** | | | | | | |
| Gauge | | | | | | K |
| Absolute | | | | | | A |