

# KM11 PRESSURE TRANSMITTER INSTRUCTION SHEET

# ASHCROFT®



## **WARNING! READ BEFORE INSTALLATION**

The ATEX approved pressure transmitter of Ashcroft KM11 family are designed to sense pressure in facilities with gaseous or liquid media. They are usable in zone 1.

Transmitters are affected with the **approval number** TÜV06ATEX2975

### and markings

II 2G Ex ia IIC T4 Gb  
-40°C ≤ Ta ≤ 85°C

### Label

**ASHCROFT®** Ashcroft Instruments GmbH  
D- 52499 Baesweiler

Type	KM11		
Range	200 PSI	V+	3
Output	4 - 20 mA	V-	2
Supply	9 - 32 VDC	S/N	20203090001

U<sub>i</sub> = 30 V I<sub>i</sub> = 50 mA C<sub>i</sub> = 8 nF T<sub>a</sub> = - 40°C...+ 85°C

CE 0518

II 2G Ex ia IIC T4 Gb Y. 2015

TÜV 06 ATEX 2975



## CONDITIONS GOVERNING THE USE OF THE PRODUCT

### General directions

to be complied with at all times for correct and safe use of the electronic pressure transmitter:

- Please keep within the limit values given in the specification for such items as pressure, force, torque and temperature.
- Give due consideration to the prevailing ambient conditions (temperature, atmospheric humidity, atmospheric pressure, etc.)
- Observe the applicable safety regulations laid down by the regulatory bodies in the country of use.
- Use the product only in its original conditions. Do not carry out any unauthorized modifications.
- Remove all items providing protection in transit such as foils, caps or cartons.

## OPERATING CONDITIONS

- Type testing does not apply to all ambient conditions without limitations. The user is responsible for verifying that the plug-and-socket connection complies with the specified rules and regulations, or whether it may be used for specialized purposes other than those intended by use.
- The values given in the technical data for overpressure safety relate to the hydraulic or pneumatic part of the pressure transmitter.
- The EN 60079-0:2012 and EN 60079-11:2012 standards were applied.
- Ambient temperature range -40 °C up to +85 °C
- Medium temperature range -40 °C up to +85 °C
- Safety related maximum values of electrical connection:  
U<sub>i</sub> 30 V DC  
I<sub>i</sub> 50 mA  
C<sub>i</sub> 5 nF  
L<sub>i</sub> negligible  
Consider for connected cable  
C<sub>i</sub> = 300 pF/m and L<sub>i</sub> = 1 µH/m

## INSTALLATION

### Mechanical / pneumatic / hydraulic:

- Screw the electronic pressure transmitter into the pressure connection provided using an open-jaw spanner of 22 AF size (as per DIN 894 or similar), with a tightening torque of approx. 25 Nm.
- To seal the system, use a standard copper seal with the appropriate dimensions.

### Electrical:

- All wiring should conform to local codes and must be carried out by authorized personal only. Keep high and low voltage wiring separated. For applications in critical industrial environment use special cables.
- Observe without fail the connecting information – labeled on the transmitter or laid down in the operating instructions – while

connecting the pressure transmitter.

- Ensure that the cables routed without crushing.
- Electricity supply and wirings must be suitable for the demands of the hazardous area.
- The electricity supply of the transmitter must occur according to the regulations for intrinsic circuits. A security (e.g., glaze) protection is recommended.
- When allocation is valid with cable connection:  
4-wire ventilated or unventilated cable  
red Loop +  
black Loop –  
white (not connected)

## Indication

Pressure is balanced by a micro filter (in level sensors by a capillary in the cable) between the transmitter and the ambient environment. This allows explosive mixtures from the ambient environment to intrude into the transmitter or it is possible that mixtures accumulating inside the transmitter due to diffusion escape from the housing.

## DIMOUNTING

- When disassembling the pressure system, it must be depressurized.
- Please observe applicable safety regulations when removing the pressure transmitter.

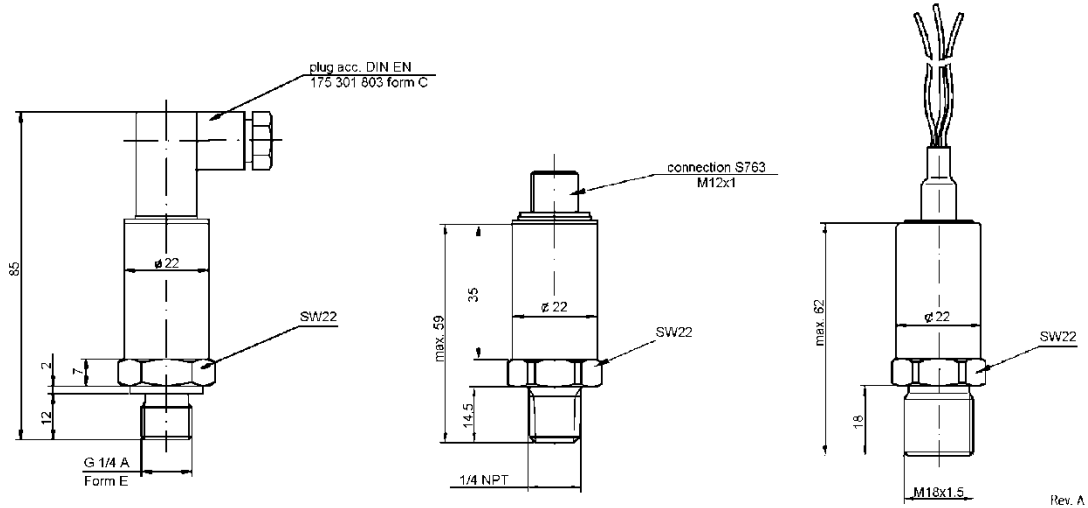
## DISPOSAL

- Please help to protect the environment and dispose of or recycle the devices and components used in accordance with the applicable regulations.

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## General dimensions:



## Electrical connection:

Plug M12x1	Cable port	DIN EN 175301-803-A	DIN EN 175301-803-C
Power 1: UB+ 2: nc 3: out 4: nc	Power red : UB+ black: out white: nc	Power 1: UB+ 2: out 3: nc	Power 1: UB+ 2: out 3: nc

nc = not connected

The electrical connection must be made in accordance with the respective connection diagram unless otherwise agreed upon.

\* Custom-made adjustments are available.