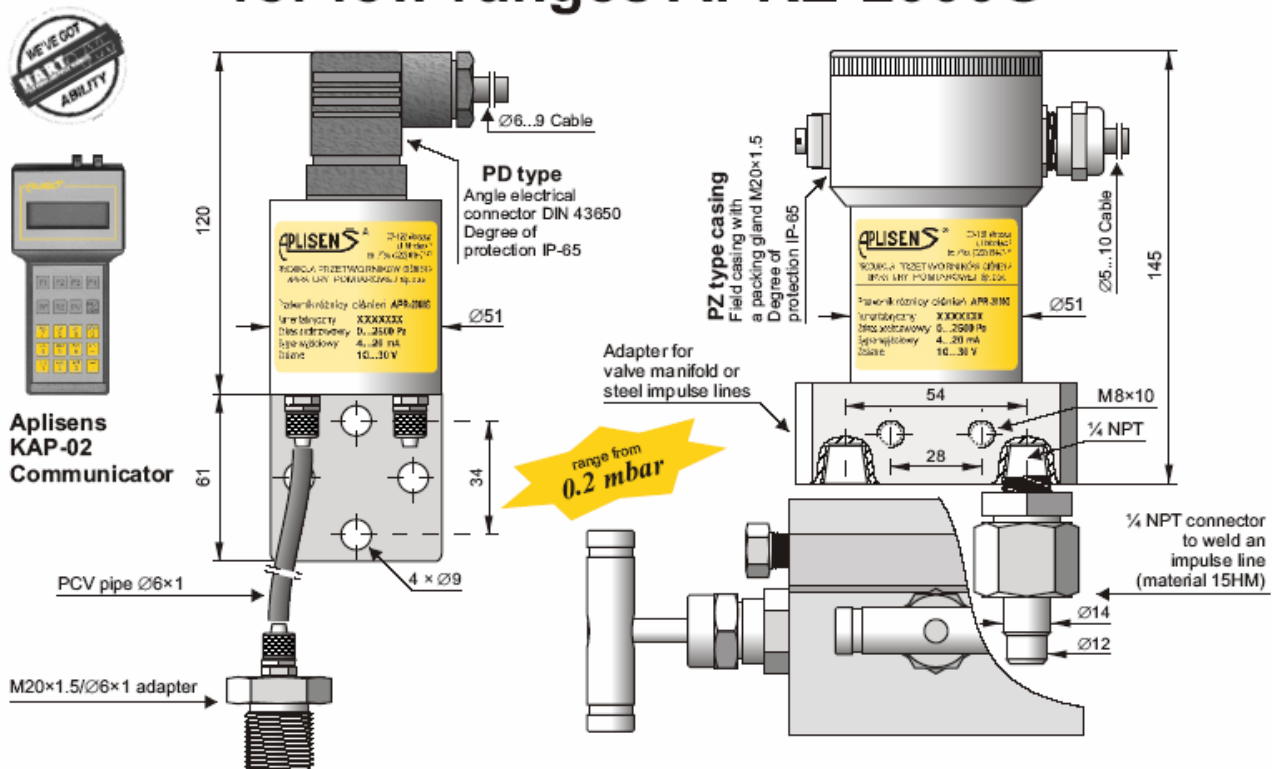


Smart differential pressure transmitter for low ranges APRE-2000G



APRE-2000G Economic Version, process connection with terminal connecting to Ø6 pipe (PCV type)
An example with PD type Electrical Connection

APRE-2000G Industrial Version, C type process connector to be mounted along with a valve manifold
An example with PZ type Electrical Connection

- ✓ Programmable zero shift and damping ratio
- ✓ Selectable linear or radical conversion characteristic
- ✓ 4...20 mA output signal + HART protocol
- ✓ Accuracy from 0.1%
- ✓ ATEX Intrinsic safety

Application

The APRE-2000G transmitter is applicable to gases, to the measurements of their pressure, underpressure and differential pressure. Typical applications include the measurement of blast pressure, chimney draughts or pressure / underpressure in furnace chambers. The ability to select the radical conversion characteristics enables the transmitter to be used in gas-flow measurement systems using reducing pipes or other impeding elements. The transmitter can withstand overpressure up to 1 bar. The housing of the electronic circuit has the degree of protection IP65.

Configuration, calibration

The following metrological parameters can be configured:

- ◆ The units of pressure,
- ◆ Start and end-points of measuring range, damping time constant,
- ◆ Conversion characteristic (radical, inversion, user's non-linear characteristic).

Ability to calibrate the transmitter with reference to a standard pressure.

Communication

Communication with the transmitter is carried out with a KAP-02 communicator, some other Hart communicators or a PC with an RS-HART converter and RAPORT-01 configuration software.

Additionally, the data interchange with the transmitter enables the users to identify the transmitter, read the currently measured pressure difference value, output current and percentage of measuring range.

Installation

The economical version can be mounted on any stable construction using the assembly fixture with Ø9 opening. The transmitter's connection shanks have terminals to be connected to the elastic Ø6x1 impulse line. Where the pulse comes through a metal pipe, we suggest an M20x1.5 adapter for a Ø6x1 fitting using.

The transmitter with a C type connector should be mounted on a 3- or 5-valve manifold. We recommend the use of our pre-assembled transmitters with VM type valves (page 52).

