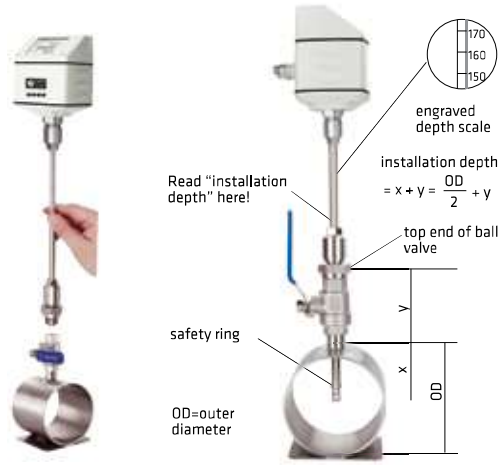
OS 401, 421

ECONOMIC FLOW / CONSUMPTION SENSOR

50 (16) bar
operating pressure

DN15 to DN300
tube diameters

-30 to 140 °C
fluid temperature



OS 401 insertion type - installation method.

Measuring units	m^3/h, m^3/min, l/min, cfm, m/s, kg/min, kg/h, kg/s
Accuracy	1.5% of reading ±0.3% full scale
Stated accuracy at	Ambient/process temperature 23 ° C ±3° C Ambient/process humidity < 90 %, Process pressure at 0.6 MPa
Repeatability	± 0.25% of reading
Medium	Air, gas (non-corrosive gas)
Operating temperature	-30 ... 140 °C fluid temperature -30 ... 70 °C casing -10 ... 50 °C casing with local display
Operating pressure	Up to 50 bar (OS 401); up to 16 bar (OS 421)
Analogue output	Signal: 4 ... 20 mA Scaling: 0 ... max flow Max. load: ≤250 R
Pulse output	1 pulse per m^3, isolated switch output, max 30 VDC, 20 mA, normally open (pulse length: 10-120 ms, depends on flow rate)
Power supply	15 ... 30 VDC, 200 mA
Principle of measurement	Thermal mass flow
Sensor	Glass coated resistive sensor
Display:	2.4" colour graphics display with keypad
Transport temperature	without display: -30 ... 70 ° C with display: -10 ... 50 ° C

DESCRIPTION

OS 401/OS 421 are flow sensors, suitable for consumption measuring in different compressed air systems.

The version with display shows the volumetric flow and the total compressed air consumption. Via the keyboard tube diameters and the consumption counter can be set.

Various settings such as gas type, flow unit, reference standards, can be set.

Option:
Built-in display and external power supply

OS 421: Shortened inlet section!
Recommended inlet section length is:
l = 15 x inner pipe diameter

APPLICATIONS

- General compressed air systems