# DIFFERENTIAL PRESSURE TRANSMITTER FOR LIQUIDS

SDW 1.. Eng.

Bracket mounting

• Operating voltage 24 V ~.

• Differential pressure active transducer 0 ... 10 V-



CE

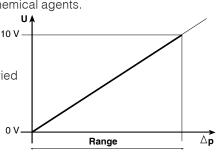
## **1. APPLICATION**

Differential transmitter for hot/cold fluids either in control or conditioning plants. PSDW 1.. can be used as a measurement or adjustment transmitter when paired with controllers or readers with input 0 ... 10 Volt.

It is suitable for hot/cold water (glycol max 50%). Do not use fluids with chemical agents.

## 2. OPERATION

The transmitter sends a signal 0 ...10 Volt which is proportional to the carried out measurement. It does not require any further adjustment.



#### **3. MOUNTING**

The transmitter is supplied with a bracket for its mounting (fig.7.4).

Whatever mounting position is allowed. The junctions for the pressure inlets are two female threaded holes G1/8". For the correct mantainance of the transmitter it is advisable to insert isolation valves in the plant. The wiring must be carried out using the three-core wire already mounted on SDW1..., following the electric diagram in the data sheet (point 6) Current IEE regulations must be net and any steam/liquids liking must be prevented.

If used with fluids with temperature over 80°C or under 0°C and with steam, a spacing collar must be installed.

## 4. MODELS

Code	Application range (bar)	Max Overpressure P1 P2 (bar)		Output signal (Volt –)	Temperature influence (fs/°C)	
SDW 101	0 1	5	5	0 10	TC0 < 0.1 %	
SDW 102	0 2.5	12	12	0 10	TC0 < 0.1 %	
SDW 106	0 6	12	12	0 10	TC0 < 0.04 %	

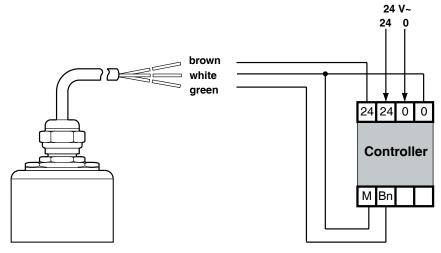




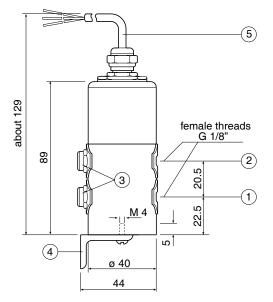
# **5. TECHNICAL DATA**

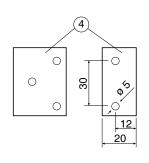
• Sensor: application range time constant Output signal	see models available 5ms 010 V	Protection Electromagnetic compatibility Construction standards	IP 65 89/336 EEC Italian Electrotech. Comm.(CEI)
<ul> <li>Linearity, hysteresis and repe</li> <li>Electrical: Power supply</li> <li>Frequency</li> </ul>	eatability: < ±0.5% fs at 2 x rated pressure < ±0.8% fs at 3 x rated pressure < ±1.3% fs at 5 x rated pressure 18 – 33V– 24 V~ 50 Hz	• Mechanical: Mounting Construction standards Materials: sensor seals Pressure inlets: Temperature:	bracket Italian Electrotech. Comm.(CEI) ceramic CR (Neoprene) threaded female holes R 1/8"
Consumption Load	5 mA 10 kOhm	operation: storage: Weight	−15 80°C −25 80°C 430 g

#### 6. WIRING



# 7. OVERALL DIMENSIONS





1-high pressure inlet, or low pressure inlet forvacuum

- 2-low pressure inlet, or high pressure inlet for vacuum
- 3 venting screws 4 mounting bracket 5 cable and signal

#### MAmendment to data sheet

Date	Revision No.	Page	Section		Details of amendments	
01.12.08 MZ	01	2	5. TECN	ICAL DATA	Operation and Storage adjustments under technical data	
( <b>C+C</b> ) TE	ONTROLLI EMPERATURA NERGIA	20132 - Milan Orders	De La Salle, 4/a tral & Southern nesi, 14 a poldi, 190/192 b (BS)	Tel. +39 0227221 Fax +39 0225936 Fax +39 0225936 Fax +39 0227221 Tel. +39 0655665 Tel. +39 0364773 Tel. +39 0364773 Web: www.coster.	330 517     ISO 9001:2000     150 9001:2	

