

# Model 851S

## Low Pressure Transmitters with Display



Model 851S series is a low pressure transmitter, which is developed to measure low pressure down to 0.2 mbar. It features a dedicated design with a 3 ½ LCD display with backlight. The backlight allows 851S series transmitters to be used in dark. The V-shaped pressure inlet is for pneumatic connection through a hose. This inlet can be either in radial direction (as shown) or axial direction. A 1/4 NPT connector is used as electrical interface to ensure IP 67 protection.

The 851S series is found a precision transmitter of high stability for a number of measuring ranges, spanning from 0~0.2 mbar to 0~10 bar. Its output signal is conditioned to 4~20 mA current loop, 0~5 Vdc or 1~5 Vdc with the accuracy up to 0.1 %fso (fso = full scale output). Both gauge and differential pressure can be measured with 851S transmitters. For gauge pressure measurement there is one V-shaped inlet (as shown), while for differential pressure measurement there are two inlets fixed on the transmitter's housing.

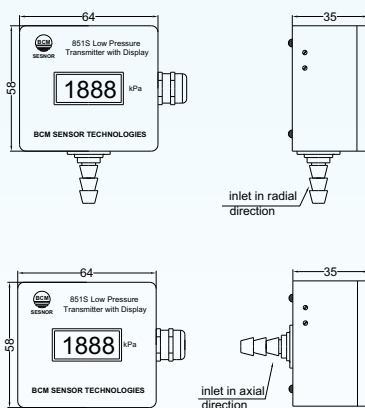
851S series transmitters are ideal devices which can be installed for industrial automation and sanitary applications, and the pressure medium is limited to dry and non-corrosive gases.

### Features:

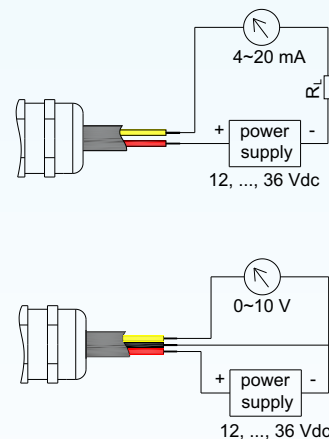
- measuring ranges: 0.2 mbar, ..., 0~10 bar
- output signal: 4 ~ 20 mA, 0/1 ~ 5 Vdc
- accuracy: 0.1 %fso, 0.25 %fso (standard), 0.5 %fso
- pressure inlet direction: radial (standard), axial
- filed display: 3½ LCD with backlight
- housing material: aluminum alloy



### Dimensions:



### Electrical connections:



**BCM SENSOR TECHNOLOGIES BVBA**

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### Specifications:

parameters	units	specifications		
medium		dry and non-corrosive gases		
measuring ranges	bar	0~0.0002, ..., 0~10		
pressure type		gauge, differential		
overload	%fs	200		
output signal		4 ~ 20 mA, 0 ~ 5 V, 1 ~ 5 V		
accuracy	%fso	± 0.1	± 0.25	± 0.5
long-term stability	%fso/year	≤ ± 0.1	≤ ± 0.25	≤ ± 0.5
short-term stability	%fso/4h	≤ ± 0.1	≤ ± 0.1	≤ ± 0.3
power supply	Vdc	for current output: 24 (recommended), 15, ..., 36		
	Vdc	for voltage output: 24 (recommended), 15, ..., 24		
load resistance	Ω	250, ..., 1150		
operating temp. range	°C	-20 ~ +85		
compensated temp. range	°C	0 ~ +60		
temp. coefficient of ZERO	%fso/°C	≤ ± 0.01	≤ ± 0.03	≤ ± 0.05
temp. coefficient of SPAN	%fso/°C	≤ ± 0.01	≤ ± 0.03	≤ ± 0.05
pressure interface	inlet	Φ 6mm V-shaped inlet		
direction of inlet		radial (standard), axial		
electrical interface	connector+cable	1/4NPT connector with PVC shielded cable of 1.5 m		
display		3½ LCD with backlight (light blue for current output, yellow for voltage output)		
environment protection		IP 67		
housing material		aluminum alloy		

The listed specifications and dimensions are subject to change without prior notice.

**How to order:** model - range&type - output - accuracy - inlet direction

ordering code example: 851S-0/0.01barG-4/20mA-0.25%fso-axial



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