



EMA 158 DIFFERENTIAL PRESSURE TRANSMITTER

Proclea EMA 158 is an air differential pressure transmitter based on an highly sensitive differential pressure measurement

His installation in round or square ducts without limitation to duct dimensions, air temperature or cleanliness, let it able to operate in a wide range of applications

A LINEARIZED DIRECT OUTPUT

EMA 158 gives a linearized 0-10V signal proportional to the differential pressure measured through a pipe.

This signal may be directly interfaced with a linear reader or with a control unit, in order to provide a reliable and cheap pressure reading and control system

AN INTEGRATED LIMIT SWITCH

EMA 158 unit includes a differential pressure limit switch (or threshold) settable through a rotating potentiometer in the 0-100% range.

The output is doubled with a red LED light on board and a normally open contact, voltage free, on terminals 4 and 5

CUSTOMIZATION

The EMA158 can be supplied with different sensor range from -60 to 3500 Pa, with linear. Additionally, one sensor in the range 0 – 500 Pa is featured with squared root output for airflow measurement applications.

ALLOWED FLUIDS

Clean air or neutral gases

Temperature range in operation: -10°C / +60°C

Gas flow rate: 100 Ncm³/min at 100% of differential pressure range

PROCLEA S.R.L.

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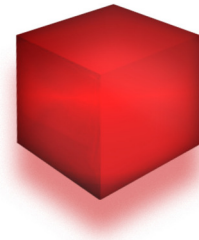
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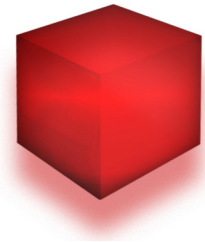
TECHNICAL DATA

LINEAR OUTPUT

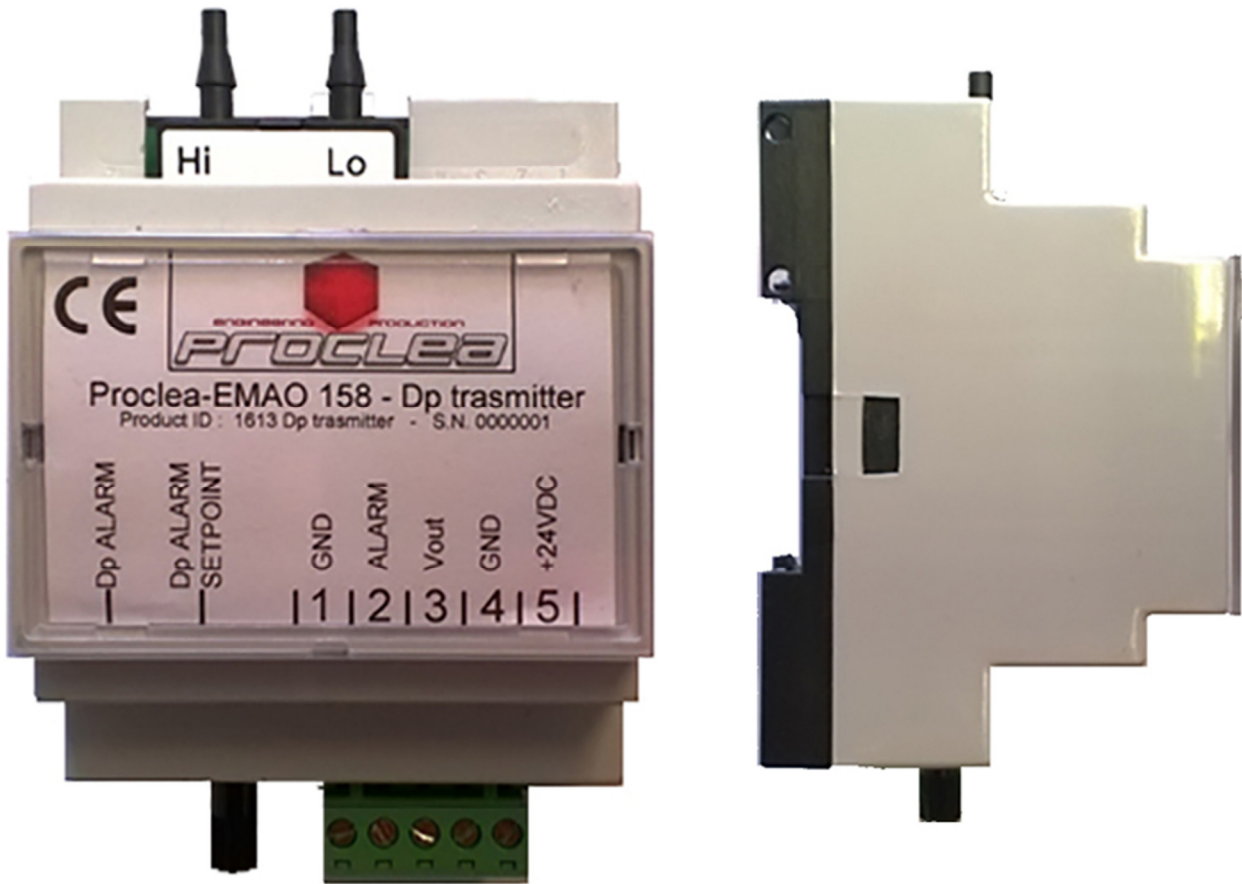
Alimentazione	Electrical supply	24 V dc
Campo di misura dP	dP measurement range	-60 / +60 Pa 0 / 125 Pa 0 / 500 Pa 0 / 3500 Pa
Campo di misura v	Air speed range	1- 28 m/s
Errore	Reading error (overall)	±0,2 Pa equal to ± 0,5 m/s
Uscita lineare	Linearized output	0 – 10V
Range impostazione allarme	Alarm threshold range	0 – 100%
Distanza massima punto di captazione pressione	Allowable pipe length between EMA158 and uptake point	30 m
Diametro tubi di collegamento, flessibili	Tubing, internal diameter, flexible type	φ 4 mm

SQUARED ROOT OUTPUT

Alimentazione	Electrical supply	24 V dc
Campo di misura dP	dP measurement range	-60 / +60 Pa 0 / 125 Pa 0 / 500 Pa 0 / 3500 Pa
Campo di misura velocità aria	Air speed range	1- 28 m/s
Errore	Reading error (overall)	±0,2 Pa equal to ± 0,5 m/s
Uscita lineare in velocità	Linearized output (speed)	0 – 10V
Range impostazione allarme	Alarm threshold range	0 – 100%
Distanza massima punto di captazione pressione	Allowable pipe length between EMA158 and uptake point	30 m
Diametro tubi di collegamento, flessibili	Tubing, internal diameter, flexible type	φ 4 mm



DIMENSIONS



Standard enclosure for DIN rail: 70x86x60 (LxWxH) mm