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ENGINEERING PRODUCTION
Proclea

EMA 158-TPR 900
DIFFERENTIAL
PRESSURE AIR FLOW METER

EMA 158R AIR FLOW TRANSMITTER

Proclea EMA 158R is an air flow 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 158R gives a linearized 0-10V signal proportional to the square root of the differential pressure measured through a Prandtl tube, similar to a Pitot tube about the measurement principle (the difference between total pressure and static pressure in a duct).

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

AN INTEGRATED LIMIT SWITCH

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

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



CUSTOMIZATION

The Prandtl tube, coded as EMA158 TP, can be provided both in standard sizes, for the circular ducts from 125 to 300 mm., than in fully customized sizes for the rectangular ducts.

Aluminum and AISI 316 are the materials used to set-up the EMA158 TP unit: this fulfill a wide range of applications.

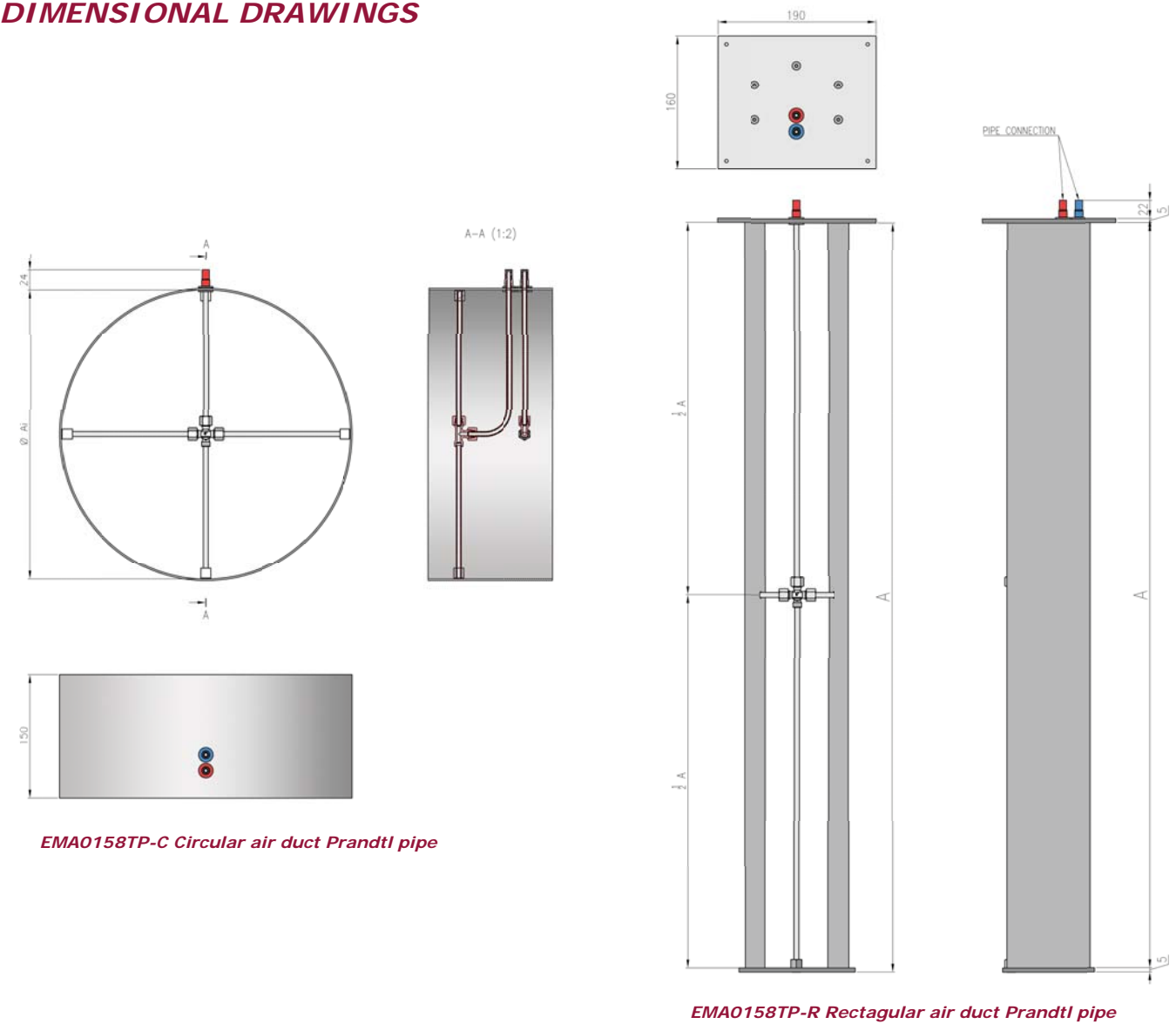
Special materials can be supplied on request.



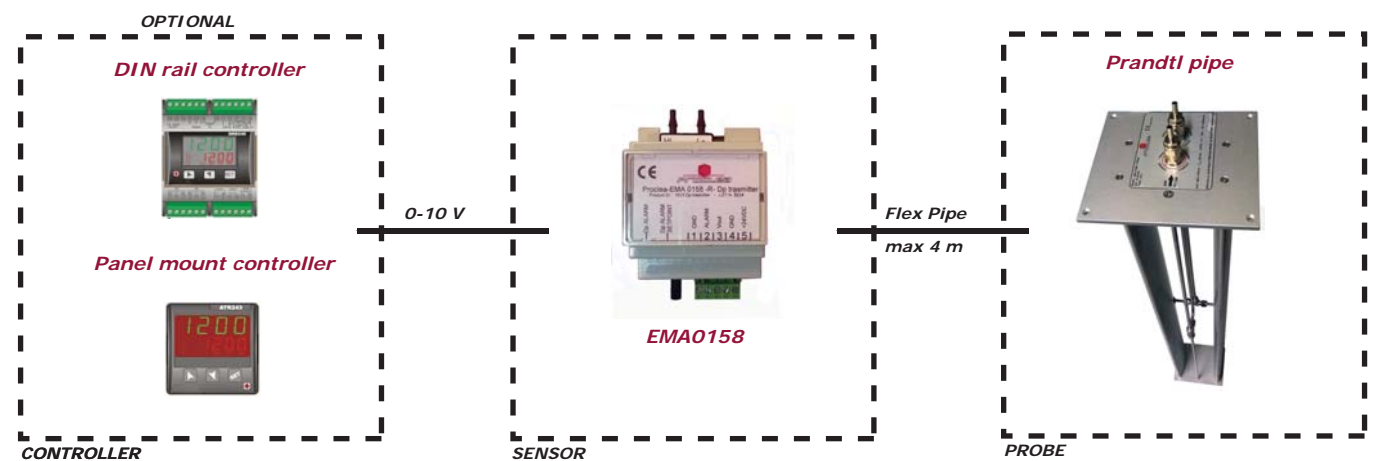
ORDERING CODE COMPOSITION

EMA0158RK	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		500 for circular duct Ø500mm		CST size		D		DIN rail mount controller		Q IP54 kit
		400 for circular duct Ø400mm		RET size		R		front mount controller		
		350 for circular duct Ø350mm				0		no controller		
		300 for circular duct Ø300mm								
		250 for circular duct Ø250mm								
		CST custom circular duct								
		RET rectangular duct								

DIMENSIONAL DRAWINGS



KIT WIRING DIAGRAM



TECHNICAL DATA

Electrical supply	24 V dc
dP measurement range	5-500 Pa
Air speed range	1- 28 m/s
Reading error (overall)	±0,2 Pa equal to ± 0,5 m/s
Speed Linearized output	0 – 10V
Alarm threshold range	0 – 100%
Allowable cable length between EMA158-TP and EMA158R	30 m
Tubing, internal diameter, flexible type	i 4 mm, flessibile