



**PA 151**

## Probe mounting adaptor

### FEATURES

- » From the Vibro-Meter® product line
- » For the external mounting of TQ proximity probes
- » Certified for use in potentially explosive atmospheres
- » Removable housing, with a U-shaped retainer, that allows easier probe installation and gap adjustment
- » Sealed die-cast polyester housing
- » Stainless steel rod available in lengths from 50 to 800 mm, with mounting position adjustable to  $\pm 10$  mm
- » Range of adaptor threads and lengths
- » Choice of cable fitting options

**!** Certified for use in potentially explosive atmospheres only with Ex certified products from Meggitt Sensing Systems' Vibro-Meter® product line



**PA 151**



### DESCRIPTION

The PA 151 probe mounting adaptor allows the external mounting of a reverse-mount proximity transducer, such as the TQ 412, without machine disassembly. The removable housing and U-shaped retainer make it easier to adjust the gap or replace the probe, even while the machine is running.

Designed for harsh industrial environments, and certified for use in explosive atmospheres, the

adjustable stainless steel rod and polyester housing assembly protect the transducer-to-extension cable connection.

The PA 151, together with matching cable, optional flexible protection sheathing and cable feedthroughs makes installation easier and ensures the proper functioning of a proximity transducer system.



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## SPECIFICATIONS

### Rod (ordering options B and C)

Material	: Stainless steel 1.4301
Length	: See Ordering information on page 4
Probe mounting thread	: See Ordering information on page 4

### Adaptor assembly (ordering options D and E)

Material	: Stainless steel 1.4305
Adaptor length and mounting thread	: See Ordering information on page 4
O-ring seal	: Viton® (FPM), Ø13 x 1.5 mm

### Cable fittings (ordering option F)

Material	Nickel-plated brass, Viton® (FPM) seal
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### Housing

Material	: Polyester reinforced with glass fibre
Cover	: Sealed with a neoprene gasket
Colour	: Black (RAL 9011)
Protection rating (according to IEC 60529)	: IP65
Temperature range	: -40 to +100 °C (-40 to +212 °F)
Impact resistance	: 4 mJ/mm <sup>2</sup> (DIN 53453)
Surface resistivity	: < 10 <sup>9</sup> Ω (DIN 53482)
Chemical resistance	: Good resistance to sea water, acids, alkaline solutions, solvents, gasoline and oils
Flammability	: Self-extinguishing, UL94V-0

### Explosive atmospheres

Available in Ex approved versions for use in hazardous locations

#### Industrial housing

Type of protection Ex e: increased safety		
Europe	EC type examination certificate	II 2 G (Zones 1, 2) Ex e II

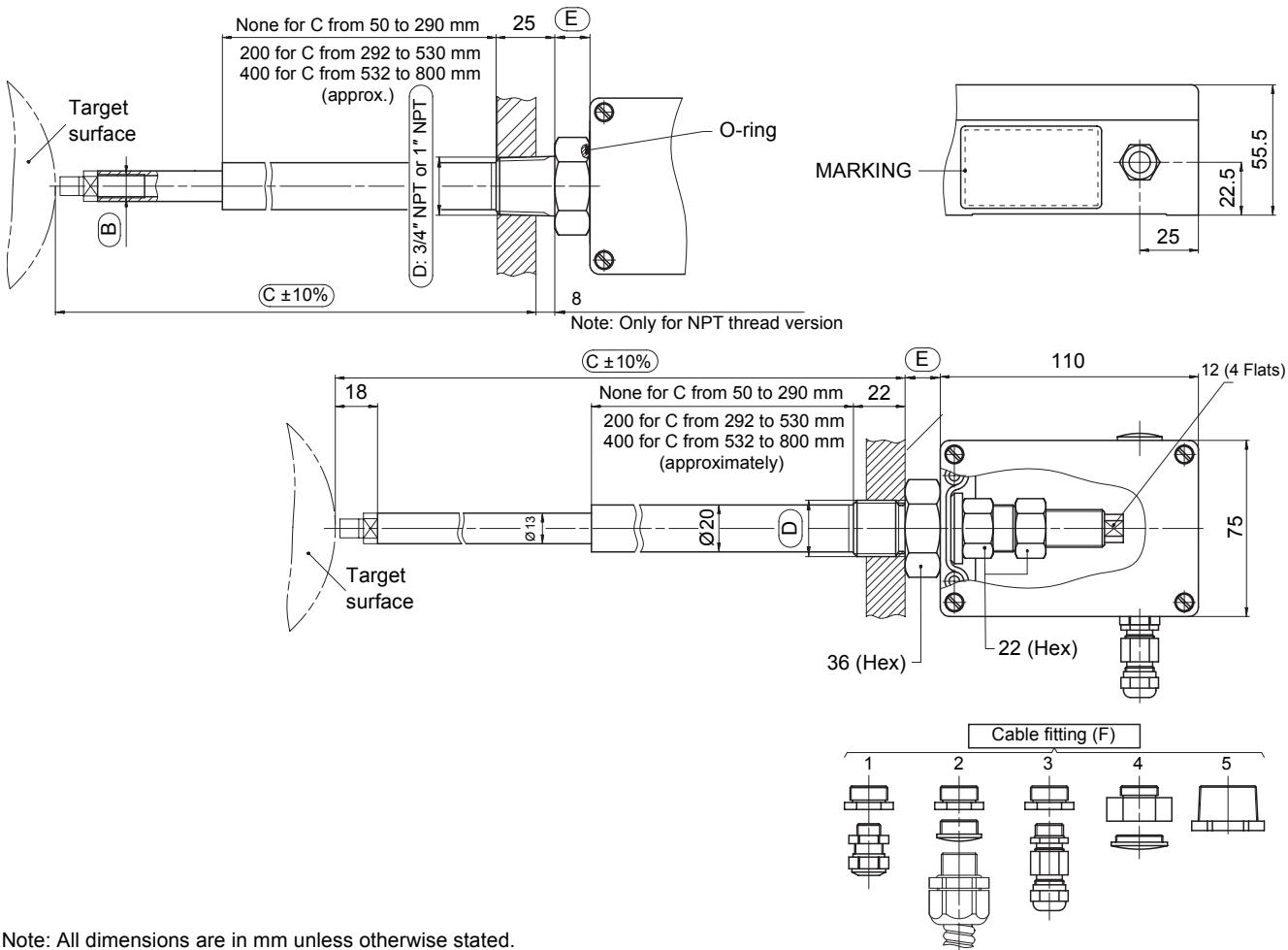
Surface resistivity for Ex version : < 10<sup>9</sup> Ω (DIN 53482)

#### Stuffing glands

Type of protection Ex e: increased safety		
Europe	EC type examination certificate	II 2 G/D (Zones 1, 2) Ex e II

 For specific parameters of the mode of protection concerned and special conditions for safe use, please refer to the certificates that are available from Meggitt SA on demand.

## MECHANICAL DRAWING



## ORDERING INFORMATION

To order please specify

Type : PA 151  
Designation : Probe mounting adaptor  
Ordering number : See below

**Ordering number: 800 - 151 - 000 - 011 - **B** - **C** - **D** - **E** - **F****

Sensor thread (B)	
M10x1	1
3/8" - 24 UNF	2

Adaptor thread (D)	
M24	1
7/8" - 14 UNF	2
3/4" NPT	3
G 3/4"	4
1" NPT	5

Adaptor length (E)*	
015	15 mm
105	105 mm
195	195 mm

Rod length (C)*	
Each 2 mm, from 50 to 800 mm	
50 mm min.	050
800 mm max.	800

Cable fitting (F)	
No hole	0
M12x1.5 cable gland for Ø2.5 to Ø3.6 mm cable, with one plug	1
Two M16x1.5 / PG9 adaptors for use with flexible protection tube, with two plugs	2
M12x1.5 combination cable gland for Ø2 to Ø4 mm cable and Ø6 to Ø8 mm flexible protection tube, with one plug	3
Two M16x1.5 / M20x1.5 adaptors, with two plugs	4
Two 3/4" NPT plugs	5

⚠ \*For ordering options C and E, see the notes for  
NPT thread version in the Mechanical drawing on page 3.

Note: Ordering option F1 allows a connector up to 7.2 mm to be  
fed through.

## MOUNTING ACCESSORIES

SG 102 Cable feedthrough : Refer to corresponding data sheet  
KS 107 Flexible conduit (protection tube) : Refer to corresponding data sheet

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Meggitt Sensing Systems is the operating division of Meggitt specializing in sensing and monitoring systems, which has operated through its antecedents since 1927 under the names of ECET, Endevco, Ferroperm Piezoceramics, Lodge Ignition, Sensorex, Vibro-Meter and Wilcoxon Research. Today, these operations are integrated under one strategic business unit called Meggitt Sensing Systems, headquartered in Switzerland and providing complete systems, using these renowned brands, from a single supply base.

The Meggitt Sensing Systems facility in Fribourg, Switzerland was formerly known as Vibro-Meter SA, but is now Meggitt SA. This site produces a wide range of vibration and dynamic pressure sensors capable of operation in extreme environments, leading-edge microwave sensors, electronics monitoring systems and innovative software for aerospace and land-based turbo-machinery.

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