Vibro Meter

111-402-000-013-A1-B1-C075-D000-E010-F0-G000-H05

Manual

Brand	Vibro Meter
Product Series	Sheet18
Product Type	Proximity Measuring System

Description

Manufacturer : Meggitt (Vibro-Meter)

Product No. : 111-402-000-013-A1-B1-C075-D000-E010-F0-G000-H05

Product Type : Proximity Measuring System

111-402-000-013

Environment (A) : 1 = Standard

Body thread (B) : 1 = M10 × 1
Body length (C):075=75 mm
Unthreaded length (D): 000=0 mm min.

Integral cable length (E) : 010 = 1.0 m ±100 mm

Optional protection (F) : 0 =None

Flexible hose length (G) : 000 = None

Total system length (H) : 05 = 5 m

Weight : 0.22 Kg

KEY FEATURES AND BENEFITS
 From the vibro-meter® product line
 Non-contact measurement system based on
eddy-current principle
 Ex certified versions for use in hazardous areas
(potentially explosive atmospheres)
 Conforms to API 670 recommendations
 1, 5 and 10 m systems
 Temperature-compensated design

Voltage or current output with protection
against short circuits
Frequency response:
DC to 20 kHz (−3 dB)
Measurement range:
2 or 4 mm
Temperature range:
−40 to +180 °C
APPLICATIONS
Shaft relative vibration and gap/position
measurement chains for machinery
protection and/or condition monitoring
Ideal for use with VM600Mk2/VM600 and
VibroSmart® machinery monitoring systems
API 670 applications

General
Transducer input requirements : High-frequency power source from an IQS900 signal conditioner
Environmental
Temperature ranges
Transducer : −40 to +180°C with drift <5% (operating).
+180 to +220°C with drift >5% (short-term survival).
Transducer and cable : −40 to +195°C if used in an Ex Zone
Cable, connector and optional
protection
: −40 to +200°C
Protection rating
(according to IEC 60529)
: The head of the proximity transducer (transducer tip and integral
cable) is rated IP68
Vibration
(according to IEC 60068-2-26)
: 5 g peak between 10 and 500 Hz
Shock acceleration
(according to IEC 60068-2-27)
: 15 g peak (half sine-wave, 11 ms duration)
Physical characteristics
Transducer construction : Wire coil Ø8 mm, Torlon (polyamide-imide) tip, encapsulated in
stainless steel body (AISI 316L) with high-temperature epoxy glue
Integral and extension cables : FEP covered 70 Ω coaxial cable, Ø3.6 mm
Connectors : Self-locking miniature coaxial connectors.
Note: When connecting, these should be hand-tightened until
locked.
Optional protection
Flexible stainless steel hose
(protection tube)
: The stainless steel hose provides additional mechanical protection
but is not leak-tight
FEP sheath
(extruded fluorinated ethylene
propylene)

: The FEP sheath provides resistance to almost all chemicals and low permeability to liquids, gases and moisture. It is also flexible, low friction and mechanically tough.