



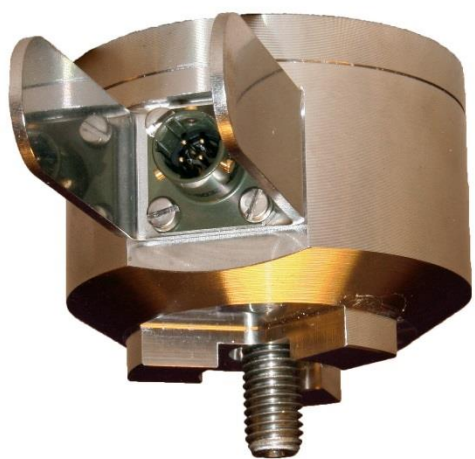
TVD-T2

SKC9069798

TOUCHPOINT VIBRATION DETECTOR USERS MANUAL

CONTENTS

1	Description	2
2	Technical description	2
3	Outline drawing.....	2
4	Mounting instruction	3
5	Drilling of segment bolt	3



1 Description

The TVD-T2 is a transducer for measuring the touch-point vibrations in a pulp refiner.

The TVD-T2 is mounted on one of the bolts for the segment plate holder.

A segment bolt must be modified with a mounting hole according to the drawing at page 5.

The TVD-T2 transducer uses an accelerometer as a sensor element which measures up to 40 kHz.

The sensor is fed with a constant current and returns a superimposed ac-signal proportional to the acceleration amplitude.

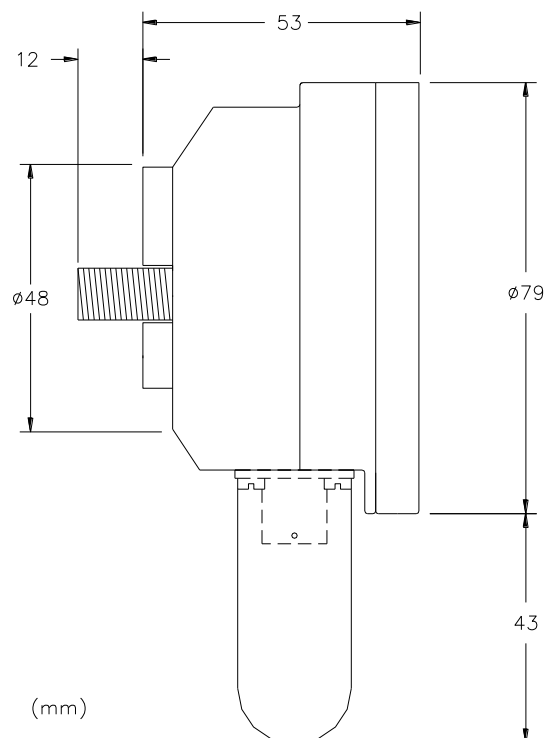
The signal is amplified and monitored in a TVD monitor. There are three versions of the monitor.

The TVD-M1 is a stand-alone unit and the TVD-RM1/3 is designed for the RMS-system.

2 Technical description

Sensor type:	Piezoelectric accelerometer
Sensitivity:	10mV/g
Range:	600g topp
Frequency range:	0.5 – 29kHz (± 3 dB)
Resonance frequency:	> 45kHz
Temperature range:	-20 ... 125°C
Excitation voltage:	18-30VDC
Current consumption:	2-10mA
Output impedance:	100 Ω
Isolation:	Internal circuitry is isolated from the cover
Shielding:	Intern circuitry is internally shielded
Weight:	ca 0.5 kg
Enclosure:	Stainless steel
Mounting:	With a bolt
Connector:	4-pole, type MIL-C-26482

3 Outline drawing

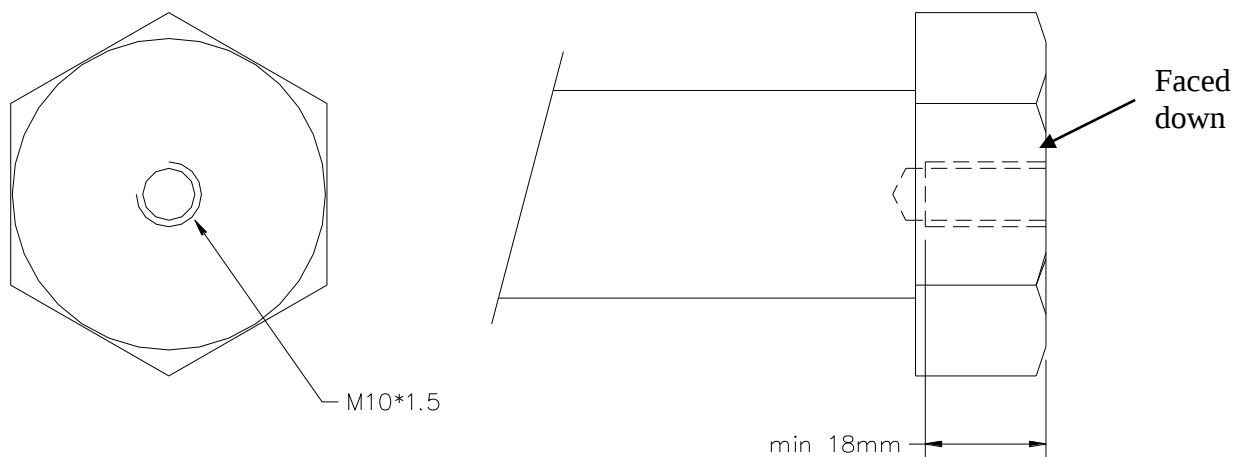


4 Mounting instruction

The transducer is mounted on one of the segment holder bolts.

- Mount and pull the segment bolt tight. The bolt should be tightened with force of 20 Nm. Check that the plane surface is clean and free of cuts rising above the surface.
- Mount the TVD-sensor on the bolt. Turn the transducer so the contact points down.
- Pull the socket head cap screw tight.
- Connect the cable (4-pole) to the TVD-sensor. Check that the bayonet on the contact snaps.

5 Drilling of segment bolt



Dametric AB

Jägerhorns Väg 19, 141 75 Kungens Kurva, Sweden

Phone: +46-8 556 477 00

Telefax: +46-8 556 477 29

e-mail: service@dametric.se

Web site: www.dametric.se

dametric 