



DTM Series Distributed Transmitter Monitor Introduction

Fully Digital

The DTM series digital transmitter monitor is PVTVM's vibration monitor, vibration transmitter and vibration switch all rolled into one package. Each DTM module can be operated independently or networked together to create a machine protection system. It has all the functionalities of an API 670 multi-channel monitor plus a unique field linearization feature which enables the use of any manufacturers' probe and extension cable combination. DTM modules are fully programmable, flexible, and highly reliable.

Fully Programmable and Flexible

The DTM is modular in nature and can easily be expanded into a larger vibration system with the addition of a:

DTM10 (Proximity Probe Sensor Module)

DTM 20 (Case Vibration Sensors Module)

DTM 96 (Communication Module)

DTM- CFG (Configuration Software)

DTM10 is a proximity probe sensor module which provides measurements in radial vibration, axial position(thrust), and speed / phase reference. The DTM10 works with any proximity probe system combination (including other manufacturers) and can be used:

- With or without Probe Driver
- In any combination of probe and extension cable. The DTM10 has a field linearization feature which enables the DTM10 to interface to any proximity probe system. This feature greatly reduces the requirement for spare parts.
- Works with any shaft material (Steel, Tungsten, K-monel and more).

DTM20 is a case mounted seismic sensor module which provides case vibration measurements in acceleration, velocity, or displacement. The DTM20 works with any case mounted sensor (including other manufacturers):

- Accelerometers
- Velocity Transducers

DTM96 is a communication module that can be used to network up to (32) DTMs together to form a vibration protection system. The DTM96 can be used to communicate directly with control systems (PLC or DCS) via modbus to provide data from the DTMs such as: alarm status, system status, overall value, and more.

DTM-CFG is the software used to configure the DTM modules (DTM10 and DTM20) either with a local laptop computer or a remote computer on the network (requires Modbus connection).

Configurable Parameters:

- Measurement Type (Case Vibration, Radial Vibration, Axial Position, and Speed/Phase)
- Sensor Type and Sensitivity (Proximity Probe, Accelerometer and Velocity Transducer)
- Full Scale Range (g, ips, mm/s, rms, pk, etc..)
- Time Delays
- Alarm Set Points

Observe:

- Alarm and Channel OK Status
- Trip Multiply
- Bypass and Overall Vibration Level

Control:

- Trip Multiply values
- Bypass and Reset functions

Note: The DTM can be pre-configured at the factory. DTM-CFG software is only required when field configuration is desired.



DTM Distributed Transmitter Monitor

Highly Reliable System

The DTM was designed to be used for critical machines as well as balance of plant applications. Built into every DTM is a system redundancy based upon a reliable microprocessor and proprietary system diagnostics which all contribute to a robust system design which will maximize system uptime.

Power Redundancy- The DTM module has redundant power supply inputs to maximize the reliability of the system. A single power supply failure will not affect the operation of the system.

Output Redundancy- The DTM module is equipped with redundant 4-20mA outputs, redundant relay outputs, and a Modbus communication port. The DTM relay outputs can be configured for any logic configuration required.

Channel Redundancy- The DTM can be configured for triple redundancy with multiple DTMs networked together.

System Diagnostics- The DTM performs internal diagnostic tests to search for errors: sensor status, supply voltage, system power up, fieldbus status and more. If there is an error, the system OK status LED on the DTM will go off, and an error will be registered for the channel and sent via Modbus.

Reliable Microprocessor- critical data and system configuration is stored in a solid-state memory chip. The memory chips are designed not to lose data during an interruption of power. Once power is restored, the critical data and system configuration are recovered from the memory chips.

Additional Features

Power-Up Inhibit- This feature decreases false alarms due to higher vibration levels during machine start-up.

Condition Monitoring- Each DTM module has a buffered output for easy connection to a condition monitoring system or other vibration analysis hardware.



Selection Guide of DTM Modules

Model Number	DTM10	DTM20	DTM96	DTM-CFG
	Radial Shaft Vibration, Thrust & Speed	Case Vibration	Accessory: Communication Module	Accessory: Configuration Software
Available as Pre- Configured or Field Programmable *1	•	•		•
Vibration Measurements				
Radial Vibration	•			
Axial Position	•			
Speed/ Phase Reference	•			
Case Vibration		•		
Sensor Interfaces				
Accelerometer		•		
Velocity Transducer		•		
Proximity Probe	•			
Works With or Without Probe Driver	•			
Outputs/ Communications				
Redundant 4-20mA Output	•	•		
Relay Output	•	•		
Redundant Power Supply Input	•	•		
Modbus Output	•	•	• (isolation)	
Buffered Output	•	•		
Features				
Push Button Setup (Limited Settings)	•	•		
Power-Up Inhibit	•	•		
System OK Checking	•	•		
Hazardous Rating (CSA, ATEX, TR CU) II 3 G Ex nA II T4 Gc Class I, Div.2; Grps A, B, C & D, T4 2Ex nA IIC T4 X Gc	•	•	•	
Network DTMs via Modbus *2	•	•	•	
Warranty- 5 years	•	•	•	

• = Complete Offering, S= Single 4-20mA Output or power supply input

Notes:

*1 = Field programming requires DTM-CFG-K Configuration Software kit. Without the software, the DTMs can only be configured for alarm set points and ZERO adjustment.

*2 =To network up to 32 DTMs via Modbus, requires (1) DTM96 Communication Module

DTM20 Seismic Vibration Distributed Transmitter-Monitor

(Acceleration, Velocity, Displacement)

The DTM20 distributed Seismic vibration transmitter-monitor provides a simple and cost-effective solution for monitoring “balance-of-plant” equipment. The DTM’s smart design is extremely reliable with redundancy in power supply inputs, 4-20mA outputs and relay outputs, as well as, a Modbus communication port. The DTM20 monitor can interface with almost any vibration sensor (accelerometer or velocity transducer). The DTM is fully digital and may be configured in the field or come pre-configured from the factory.



DTM20 Features

Designed with reliability

- Redundant power supplies
- Redundant 4-20mA outputs
- Dual dry-contact relay outputs
- Trip multiply and Bypass

Galvanic isolation for solid signal processing

- Power input isolation
- Sensor signal conditioning isolation
- Transmission 4-20mA output isolation
- Relay output isolation

Band-pass filter to further isolate unwanted noise

- Programmable sharp 8th-pole low-pass filter further eliminate high frequency band noise, thus obtains reliable vibration signal.

Fully field programmable by CFG software

- DTM20-CFG can easily change any configuration of the monitor.
- Calibration of the system is available with CFG software

Condition Monitoring by digital link

- Static (trend, overall, alarms, GAP, system OK)
- Dynamic (waveform, spectrum, phase reference, waterfall)
- Data will be directly transferred into server with no needs of additional interface hardware

MODBUS digital communication

- Build-in Modbus RTU digital communication
- More information from Modbus line

Work with variety of vibration sensors

- Accelerometer
- Velocity sensor
- Low frequency sensor
- Electro-magnetic velocity sensor

Backward compatible with TM101

- Field adjustment with on-monitor push button (without software)
- ZERO calibration
- Alert set point
- Danger set point



Specifications

Electrical

Maximum +/-2% FS

Power:

Redundant. Accept dual power input
20-30VDC @150mA
Isolation: 1000VDC power to signal conditioner

circuit

Frequency Response (-3dB):

Nominal Frequency:

2 ~ 3000Hz

Low Frequency:

0.5 ~ 100Hz

High Frequency:

10Hz~20KHz (peak)

Filters:

Low-pass filter (field programmable):
8-pole (160 dB per decade, 48 dB per octave)
100Hz to 10kHz, field programmed by CFG
High-pass filter (factory setting):
2-pole (40 dB per decade, 12 dB per octave)
4 options (0.5Hz, 2Hz, 10Hz, 100Hz) or custom

Piezo Sensor Interface:

Sensitivity:

100mV/g
100mV/in/sec
4mV/um
or any sensitivity specified

Current Source

Nominal 4mA@24VDC

Seismic Velocity Sensor Interface:

Sensitivity:

User specified for any vibration sensor
Software programmable

Accuracy:

Typical +/-1% FS

Buffered Output:

Original vibration, un-filtered
Impedance: 150Ω
Maximum cable distance: 300m (1000ft)
Sensitivity: same as the sensor
Local BNC connector
On line CM terminals

Overall Vibration output:

Up to two 4-20mA output
4-20mA(1):
Source. Output to controller.
Sharing signal ground
Maximum load resistance 500Ω
4-20mA(2):
Loop. Loop powered by controller.
Galvanic isolation, 1000VDC
Power supply range: 16-30VDC
Maximum load resistance: 50*(Vs-16)
Where Vs is the loop power supply

Alarm Set point:

5 ~ 100% FS
Accuracy:
±0.1%.
Delay: 1~60s, according to 1 second increase,
default is 3s.

Relays:

Seal: Epoxy.
Capacity: 0.2A/240VAC,
0.4A/110VAC
2.0A/24VDC, resistive load
Relay type: SPTD
Isolation: 1000VDC

Push Buttons:

SET: System on-site calibration and alarm setting
+ : Adjustment increment



- : Adjustment decrement

LED Machine Condition Indicator:

OK: System OK indication
ALT: Vibration over Alert level
DNG: Vibration over Danger level
BYP: System in BYPASS
TRX: Digital transmission active

RESET/BYPASS:

Front panel push-button
Remote RESET/BYPASS terminals

Trip-Multiply

Double or Triple Multiply set by DTM-CFG. This feature is not available with (M2,M4 and M6 option)

Modbus RTU

RS485 Modbus RTU (Non-isolated. Use DTM96 for isolation)

Software programming (DTM-CFG):

Measurement Units A, V, D
Alert and danger set-point, time delay
ZERO and Full-Scale calibration
Low-pass filter corner frequency setup
Alarm latching/ non-latching, energized/ de-energized
Relay programmable with alert, danger or system OK
Sensor selection, sensitivity setup
System calibration
Digital communication setup
Trip-multiply setup
Real-time bar-graph and alarms
3 layers of password protection

Digital Condition Monitoring

Terminals
RS485 for both Modbus RTU and condition monitoring
Software PCM360-LT
Work with PCM360-LT plant condition management software
Dynamic waveform:

Real-time vibration data, 2000 sets per data acquisition.

Alarms:

Up to 100 alarms can be stored in DTM20.

Trend:

Up to 1000 trend data can be stored in DTM20.

Spectrum:

Up to 800 lines of resolution.

Physical

Dimension:

Height: 75mm (2.95")
see figure below
Weight: 0.9lb (0.4kg)

Environmental

Temperature:

Operation: -40°C ~ +85°C.
Storage: -50°C ~ +100°C.

Humidity: 90% non-condensing.

Case: Aluminum cast (copper free)

Certification

CE certified with EMI compliance

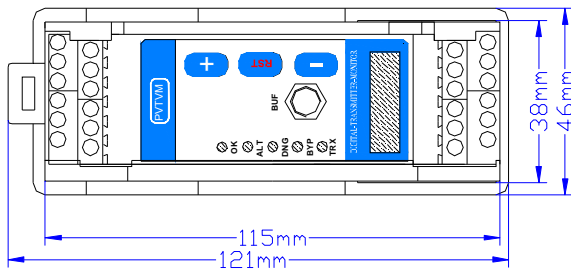
CSA: Class I, Div. 2, Grps A,B,C&D,T4

ATEX: II 3 G Ex nA IIC T4 Gc
EN IEC 60079-0:2018
EN 60079-15:2010

IECEx: Ex nA IIC T4 Gc
IEC 60079-0 : 2017(Ed. 7)
IEC 60079-15 : 2010(Ed. 4)

TR CU: 2Ex nA IIC T4 X Gc
№ TC RU C- US.AA87.B.01024
NANIO CCVE

GOST 31610.0-2014 (IEC 60079-0: 2011) Explosive media. Part 0. Equipment. General requirements
GOST 31610.15-2014 / IEC 60079-15: 2010 Explosive atmospheres. Part 15. Equipment with type of protection "n".



Rail Mounting

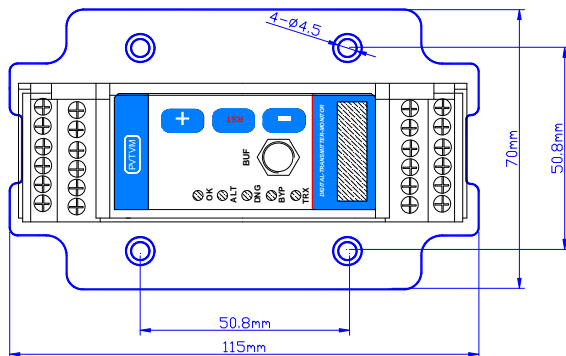
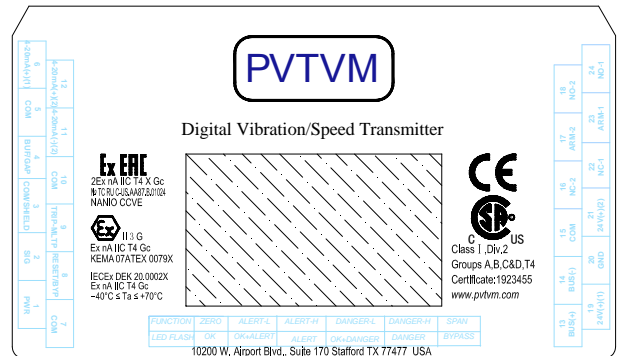


Plate Mounting

Hazardous area

Marking:



ATEX Standards:

EN IEC 60079-0 : 2018

EN 60079-15 : 2010

IECEX

IEC 60079-0 : 2017(Ed. 7)

IEC 60079-15 : 2010(Ed. 4)

Special condition in hazardous area:

- The ambient temperature range is: $-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
- DTMs must be placed inside an enclosure that is in accordance with EN 60079-15:2010.
- Provisions must be made externally to prevent the rated voltage from being exceeded by transient disturbances of more than 40 %.

Specific condition for safe use:

- The equipment shall only be used in an area of not more than Pollution Degree 2, as defined in IEC 60664-1.



Ordering Information

DTM20-101-AXX-CX-GX-HX-IX-JX-MX-SX

Factory pre-configured seismic monitor

AXX: Full Scale.

A00: 0 - 200um pk-pk
A01: 0 - 500um pk-pk
A02: 0 - 100um pk-pk
A03: 0 - 250um pk-pk
A05: 0 - 125um pk-pk
A06*: 0 - 50mm/s pk
A07: 0 - 100mm/s pk
A08: 0 - 20mm/s pk
A11: 0 - 25mm/s pk
A12: 0 - 5.0g pk
A13: 0 - 10g pk
A14: 0 - 8mil pk-pk
A15: 0 - 20mil pk-pk
A16: 0 - 4mil pk-pk
A17: 0 - 10mil pk-pk
A18: 0 - 5mil pk-pk
A19: 0 - 2.0 ips pk
A20: 0 - 4.0 ips pk
A21: 0 - 0.8 ips pk
A22: 0 - 1.0 ips pk
A26: 0 - 50mm/s rms
A27: 0 - 100mm/s rms
A28: 0 - 20mm/s rms
A31: 0 - 25 mm/s rms
A32: 0 - 2.0 ips rms
A33: 0 - 4.0 ips rms
A34: 0 - 0.8 ips rms
A35: 0 - 1.0 ips rms
A36: 0 - 20g pk
A37: 0 - 50g pk

CX: Alarms.

C0*: Dual alarms with epoxy sealed relays.
C1: No Alarm.

GX: Mounting.

G0*: DIN rail mounting.
G1: Plate mounting.

HX: Sensor (not include).

H0*: TM0782A or any ICP accelerometer with
100mV/g (A00~A05 not available)
H1: TM0793V or any ICP velocity sensor with
4mV/mm/s (A12, 13, 36, 37 not applicable)
H2: TM079VD (A12, 13, 36, 37 not available)

HXXX: Seismic velocity sensor, Sensitivity = XXX
mV/in/sec (A12, 13, 36, 37 not available)

IX: Frequency Response

I0*: Normal Frequency (2~3000Hz, H2 not available)
I1: Low Frequency (0.5~100Hz)
I2: High frequency (10Hz ~ 20KHz,
A12, 13, 36, 37 only with accelerometer)

IXXX-YYYY**:

XXX: Hi-pass filter;
YYYY: low pass filter

MX: Condition Monitoring,

4-20mA with Galvanic Isolation***

M1*: 4-20mA without isolation. No CM
M2: 4-20mA without isolation . With CM
M3: 4-20mA with isolation. No CM
M4: 4-20mA with isolation. With CM
M5: Dual 4-20mA, No CM
M6: Dual 4-20mA, with CM

SX: Approvals

S0*: CE
S1: CE
CSA: Class I, Div. 2, Grps A,B,C&D,T4
ATEX: II 3 G Ex nA IIC T4 Gc
IECEX: Ex nA IIC T4 Gc
TR CU: 2Ex nA IIC T4 X Gc
№ TC RU C- US.AA87.B.01024
NANIO CCVE

* Denotes factory default.

** Low pass has to be 5X more than hi pass filter.

*** Galvanic isolation requires loop powered configuration.



DTM20-AX-BX-IX-MX-SX

Field programmable seismic monitor

AX: Sensor and Alarm

- A0: ICP sensor, Dual alarms
- A1: ICP sensor, No alarm
- A2: Seismic velocity, Dual alarms
- A3: Seismic velocity, No alarm
- A4: Looseness monitoring, Dual alarms

BX: Mounting.

- B0: DIN rail mounting.
- B1: Plate mounting.

IX: Frequency Response

- I0*: Normal Frequency (2~3000Hz, H2 not available)
- I1: Low Frequency (0.5~100Hz)
- I2: High frequency (10Hz~20KHz,
A12, 13, 36, 37 only with accelerometer)

IXXX-YYYY**:

XXX: Hi-pass filter;

YYYY: low pass filter

MX: Condition Monitoring,

4-20mA with Galvanic Isolation***

- M1*: 4-20mA without isolation. No CM
- M2: 4-20mA without isolation . With CM
- M3: 4-20mA with isolation. No CM
- M4: 4-20mA with isolation. With CM
- M5: Dual 4-20mA, No CM
- M6: Dual 4-20mA, with CM

SX: Approvals.

- S0*: CE
- S1: CE
- CSA: Class I, Div. 2, Grps A,B,C&D,T4
- ATEX: II 3 G Ex nA IIC T4 Gc
- IECEX: Ex nA IIC T4 Gc
- TR CU: 2Ex nA IIC T4X Gc
- № TC RU C- US.AA87.B.01024
- NANIO CCVE

** Low pass has to be 4X more than hi pass filter.

** Galvanic isolation requires loop powered configuration.

Optional Accessories

DTM-CFG-K

The DTM configuration and calibration software kit includes:

- ✓ DTM-CFG configuration and calibration software CD
- ✓ RS485-USB converter with cable

PCM-TCP

Modbus RTU-TCP Converter

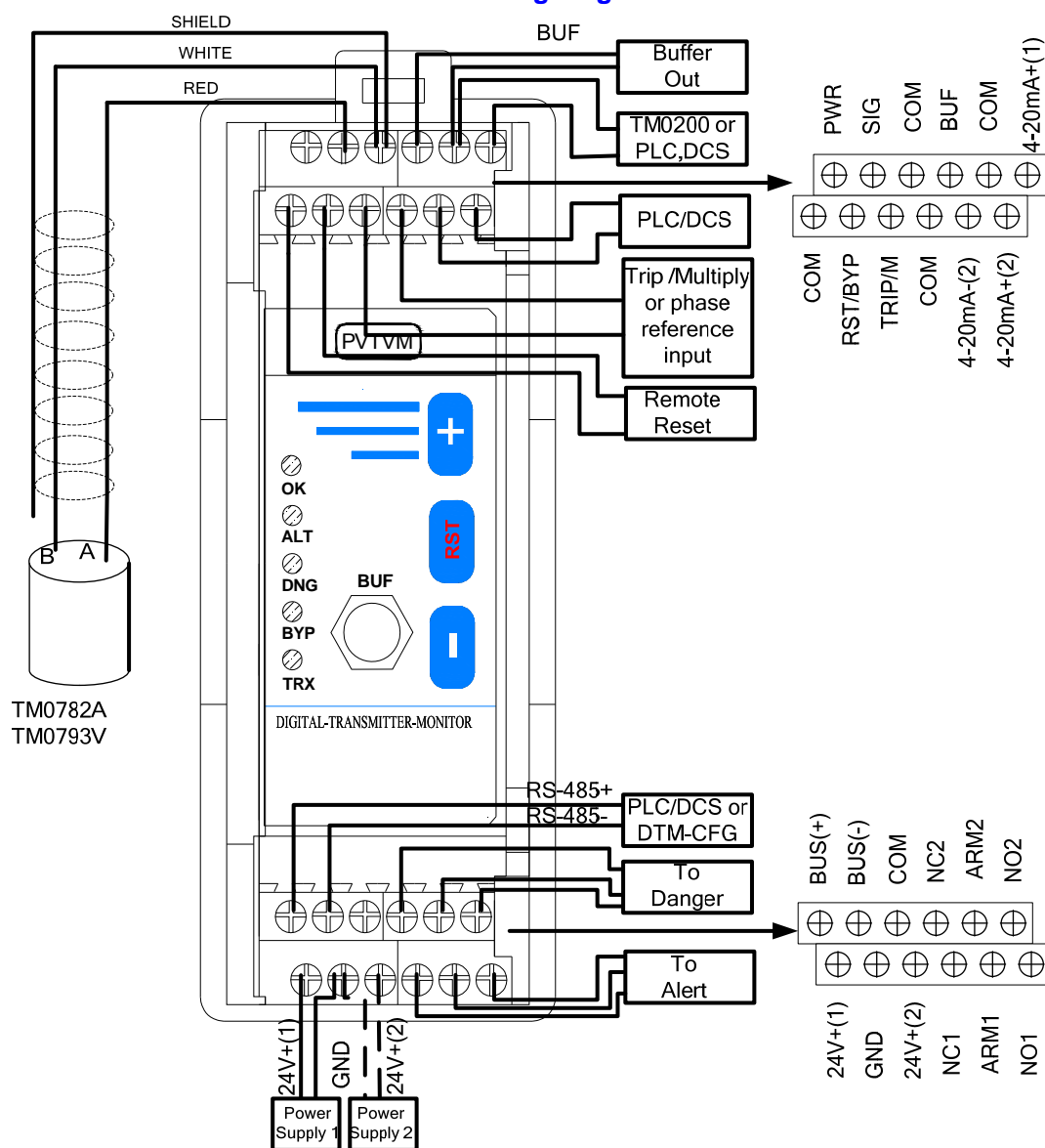
TM900A

Din Rail Mounted Power Supply. Converts 100-240VAC into 24VDC and is capable of powering up to five DTM modules.

Seismic Sensor Systems

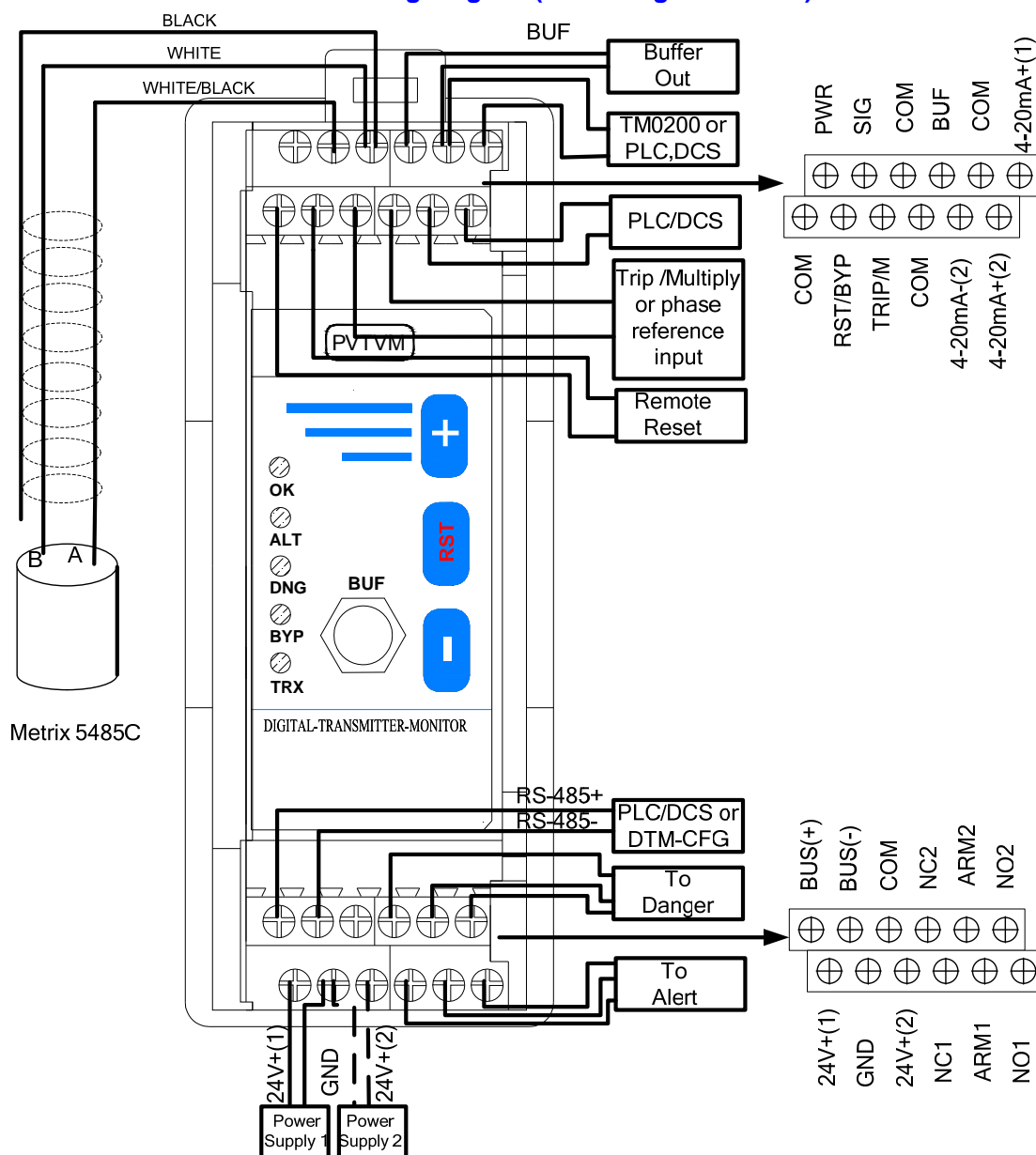
- ✓ **TM0782A-K-M:** Accelerometer kit
- ✓ **TM0783A-K-M:** Accelerometer with cable
- ✓ **TM0793V-K-M:** Velocity sensor kit
- ✓ **TM079VD-V/H-K:** Low frequency sensor

DTM20 Field-Wiring Diagram



- ✓ Power supply 2 and 4-20mA(2) are optional connections used for redundancy.
- ✓ Alert and Danger relays are shown connected as normally open. Connect ARM and NC for normally closed.
- ✓ Connecting COM and RST/BYP with an external continuous or momentary closed switch will initiate a remote reset. Temporarily closing the switch will result in a system reset, continuous close will result in a system bypass.
- ✓ If DTM20 has the digital condition monitoring function, the Trip/Multi and COM pins are used for phase reference input. Thus, the DTM20 won't provide the Trip Multiply and the Trip Multiply property should be set to "None" in the DTM-CFG software.
- ✓ When using the signal condition monitoring function the DTM20 works with DTM10-501/502 to provide a phase reference output. In this case connect Trip/Multi of DTM20 with Trip/Multi of DTM10-501/502 and connect COM of DTM20 with COM of DTM10-501/502.

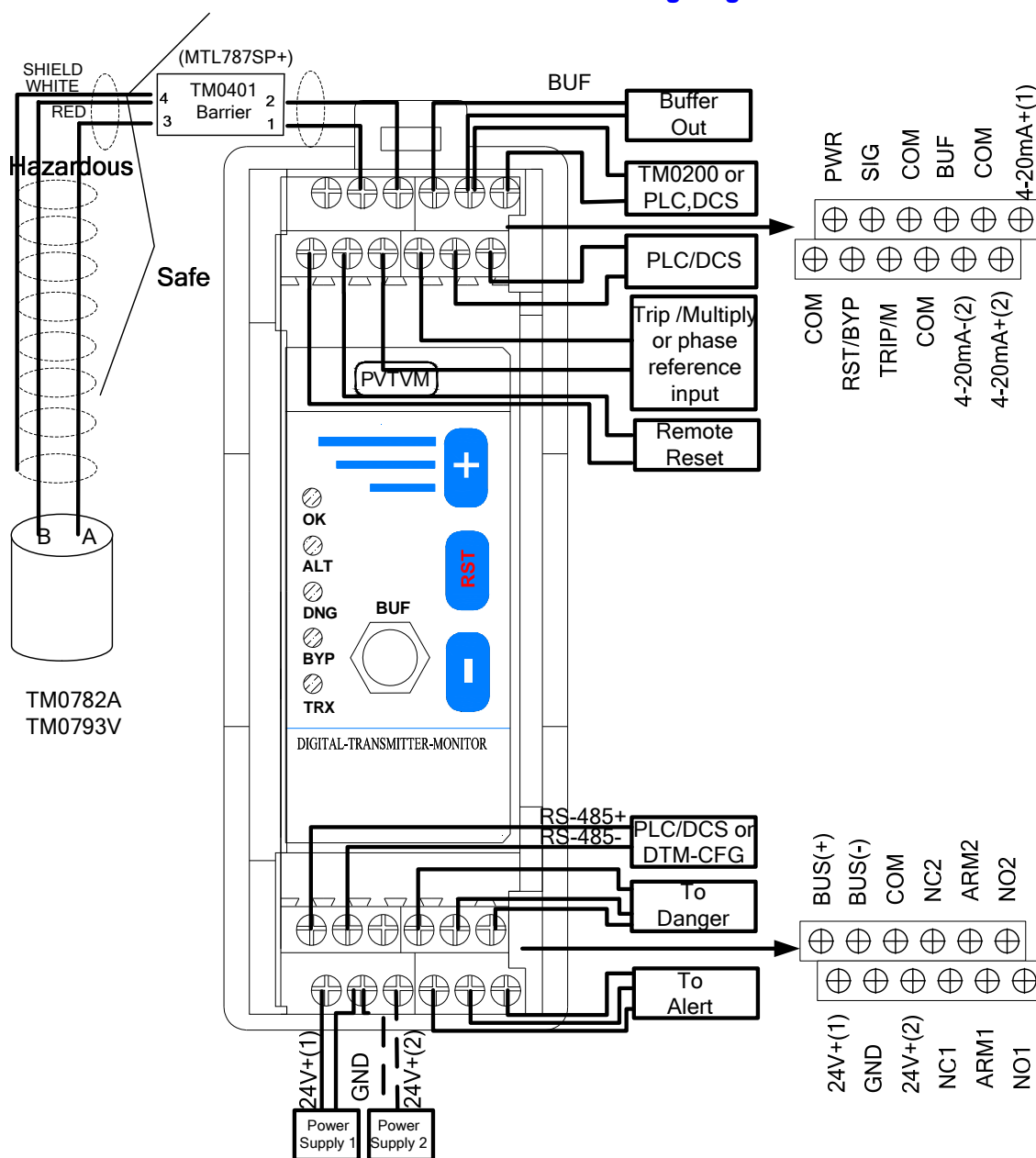
DTM20 Field-Wiring Diagram (Interfacing with 5485C)



Note:

- ✓ Power supply 2 and 4-20mA(2) are optional connections used for redundancy.
- ✓ Alert and Danger relays are shown connected as normally open. Connect ARM and NC for normally closed.
- ✓ Connecting COM and RST/BYP with an external continuous or momentary closed switch will initiate a remote reset. Temporarily closing the switch will result in a system reset, continuous close will result in a system bypass.
- ✓ If DTM20 has the digital condition monitoring function, the Trip/Multi and COM pins are used for phase reference input. Thus, the DTM20 won't provide the Trip Multiply and the Trip Multiply property should be set to "None" in the DTM-CFG software.
- ✓ When using the signal condition monitoring function the DTM20 works with DTM10-501/502 to provide a phase reference output. In this case connect Trip/Multi of DTM20 with Trip/Multi of DTM10-501/502 and connect COM of DTM20 with COM of DTM10-501/502.

DTM20 Hazardous Area Field-Wiring Diagram



Note:

- ✓ Power supply 2 and 4-20mA(2) are optional connections used for redundancy.
- ✓ Alert and Danger relays are shown connected as normally open. Connect ARM and NC for normally closed.
- ✓ Connecting COM and RST/BYP with an external continuous or momentary closed switch will initiate a remote reset. Temporarily closing the switch will result in a system reset, continuous close will result in a system bypass.
- ✓ If DTM20 has the digital condition monitoring function, the Trip/Multi and COM pins are used for phase reference input. Thus, the DTM20 won't provide the Trip Multiply and the Trip Multiply property should be set to "None" in the DTM-CFG software.
- ✓ When using the signal condition monitoring function the DTM20 works with DTM10-501/502 to provide a phase reference output. In this case connect Trip/Multi of DTM20 with Trip/Multi of DTM10-501/502 and connect COM of DTM20 with COM of DTM10-501/502.
- ✓ Other barriers available:
 TM0402: (STAHL 9001/51-280-091-141)
 TM0407: (STAHL 9160/13-11-11)

DTM-CFG Configuration and Calibration Software

DTM-CFG is the configuration and calibration software used to configure all DTM modules. DTM-CFG works with Windows XP or Windows 2000 operating system.

DTM-CFG can be connected to the DTM modules with the interface of a RS485-USB cable kit.

DTM-CFG combined with the DTM96 allows the user to remotely interface with 32 DTMs networked together in the field.

DTM-CFG Features

- ✓ **DTM Configuration**
- ✓ **DTM Calibration**

Specifications

Module Configuration:

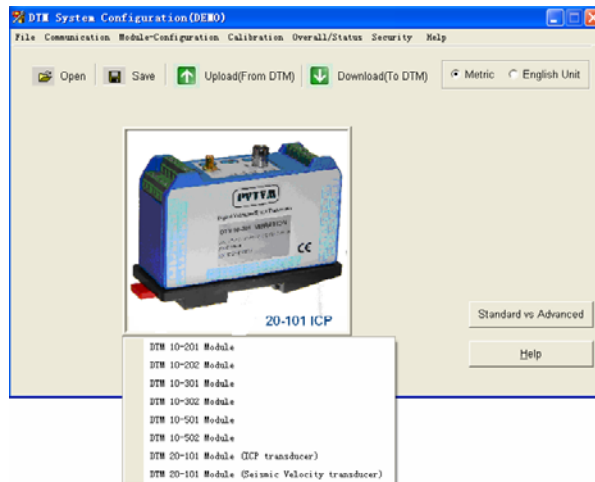
- ✓ Module type selection
- ✓ Modbus ID address, Range
- ✓ Communication baud rate
- ✓ Auto manual search of communication port
- ✓ English or metric selection
- ✓ Password and security

Operation Configuration:

- ✓ Sensor and sensitivity selection
- ✓ Measurement unit selection
- ✓ Full-scale
- ✓ Dual-alarm set-points, time delay, latching
- ✓ Relay energized/de-energized. Relay programmed to Alert or OK
- ✓ OK set-points

Maintenance Calibration:

- ✓ ZERO calibration, SPAN calibration
- ✓ Probe linearization calibration
- ✓ Real-time overall and status display
- ✓ Record of overall and status
- ✓ Configuration parameter save as file



Order Information

DTM-CFG-K

DTM configuration and calibration software kit includes:

- ✓ DTM-CFG configuration and calibration software CD
- ✓ RS485-USB converter with cable
- ✓ User manual

DTM-CFG

DTM configuration and calibration software includes:

- ✓ DTM-CFG configuration and calibration software CD
- ✓ User manual

DTM-CAL

The DTM field calibration kit with probe calibration capability with any 5mm, 8mm and 11mm probe system.

The kit includes:

- ✓ DTM-CFG configuration and calibration software CD
- ✓ RS485-USB converter with cable
- ✓ TM0540 proximity probe field calibration kit
- ✓ User manual

Optional Accessories

RS485-USB: RS485 to USB converter with cable

RS232-USB: RS232 to USB converter with cable

DTM96: Isolated communication module

TM0540: Proximity probe field calibration kit

Accessories I

TM900A Din Rail Mounted Power Supply

The TM900A power converter is designed specifically for the DTM series transmitter-monitor. Each TM900A can supply power for up to five DTM series transmitter-monitors. Standard functions include front panel LED indicator and DC voltage adjustment, as well as protections for short-circuit, overload (constant current mode), over voltage, and over temperature.

Features

- ✓ 32mm slim design
- ✓ 89% high efficiency and low power dissipation.
- ✓ Protection: Short circuit / Overload / Over voltage/Over temperature
- ✓ Cooling by free air convection
- ✓ Installed on DIN rail TS-35/7.5 or TS-35/15
- ✓ UL508 (industrial control equipment) compliance
- ✓ Certificate: UL / CUL / TUV / CB / CE

Specifications

Electrical

AC Power Input:	100~240VAC, 47~63Hz
Power Output:	
Voltage:	24VDC
Rated Current:	3.2A
Voltage ADJ.Range:	24~28VDC
Voltage Tolerance:	± 1.0%
Ripple & Noise:	100mVp-p

Physical

Dimension:	32*125.2*102mm (W*H*D)
Weight:	0.5kg (1.0 lb)

Environmental

Temperature:	
Operation:	-30°C ~ +70°C.
Storage:	-40°C ~ +85°C.
Humidity:	
Operation:	20 ~ 95% non-condensing.
Storage:	10 ~ 95% non-condensing.

Safety & EMC

Safety Standard:	UL508, TUV EN60950-1 approved, design refer to GL
Withstand Voltage:	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC



Isolation Resistance:

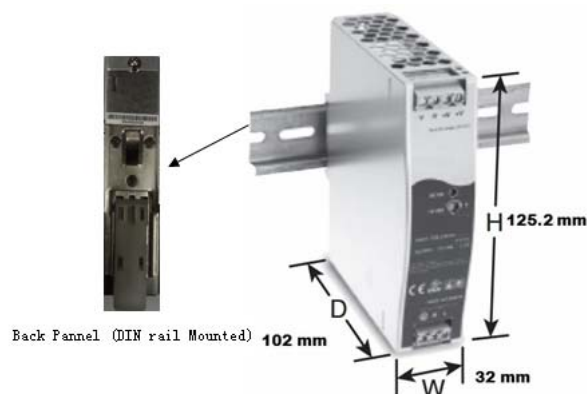
I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/ 500VDC/
25°C/ 70% RH

EMC Emission:

Compliance to EN55022(CISPR22). EN61204-3
Class B, EN61000-3-2, -3

EMC Immunity:

Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024,
EN61000-6-2 (EN50082-2), EN61204-3, heavy
industry level, critical A, SEMI F47 approved.



Accessories II

DTM-CFG

Configuration and calibration software

DTM RS485-USB

Converter from RS485 to USB for configuration with laptop computer

DTM RS485-RS232

Converter from RS485 to RS232 for configuration with desktop computer

PCM-TCP

Converter from Modbus RTU to TCP for configuration with desktop computer

PCM370

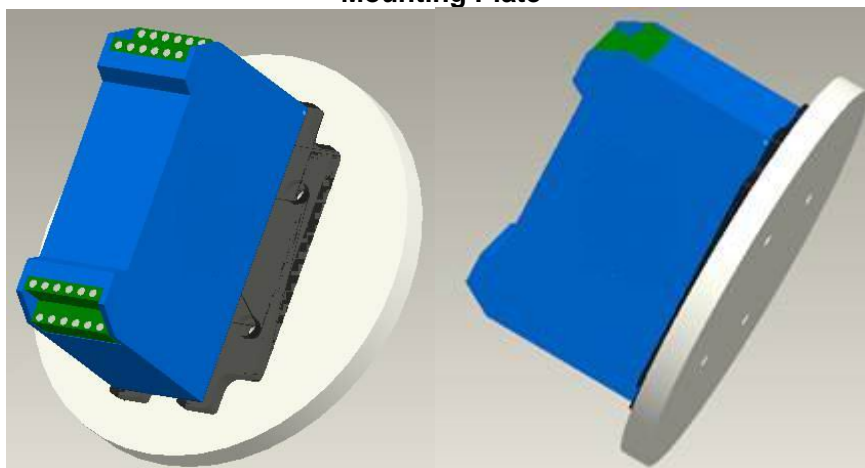
PCM370 condition monitoring software is ideal for plant wide condition monitoring, and trending of overall vibration levels

PT2060/98-PC

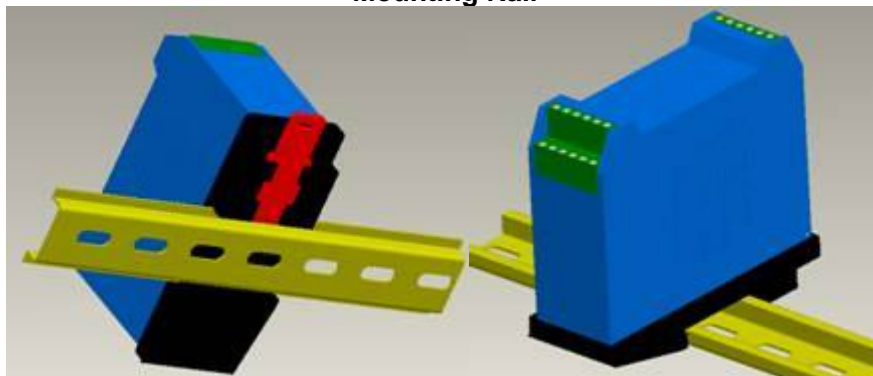
Touch panel PC with IP65 rating. Ideal to work with PCM370 and DTM-CFG

Mounting Plate and mounting Rail:

Mounting Plate



Mounting Rail



DTM networking and on-line condition monitoring

