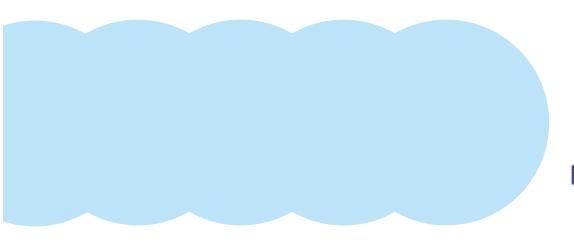
### По вопросам продаж и поддержки обращайтесь: btn@nt-rt.ru

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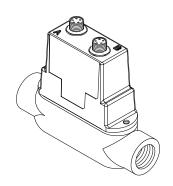
## Описание на модуль расширения. Модель 200250 proTIM-C





# 200250 proTIM-C Module

Bently Nevada\* Asset Condition Monitoring



## Description

The 200250 dual-input proTIM-C (conduit mount) provides 2 channels of measurement. All acceleration-to-velocity (A-V) channels condition the signal from an accelerometer and integrate it to velocity units. The low frequency A-V channels are better suited for slower speed applications. A-V with Acceleration Enveloping (AE) channels provide both integrated velocity units and advanced AE signal conditioning. Temperature channel types include K-type thermocouples and  $100\Omega$  Platinum (Pt) RTDs with electrical isolation. Each channel is independent and specified when the proTIM is ordered.

Table 1: proTIM Measurement Types and Transducers

Measurement Type	Interfaced Transducer				
Acceleration-to-Velocity (General Purpose)	200150				
Low Frequency Acceleration-to-Velocity	200155				
Acceleration-to-Velocity with AE	200157				
K-type Thermocouple	200125 <sup>2</sup>				
2-, 3-, or 4-Wire Platinum RTD	Industry standard				
Rack Buffered Output (RBO)	Monitor				
Process Variable (PV)	Monitor				
Pressure	200132				
Keyphasor Rotational Speed	330101/330103				
Displacement	330101/330103				

<sup>2</sup>The 200125 is the recommended Trendmaster sensor for temperature measurements when the range of a K-type thermocouple is adequate. We do not recommend the use of other K-type thermocouples due to the unique electrical isolation requirements of the Trendmaster system, and highly recommend the use of only non-grounded RTDs and non-grounded tip thermocouples to prevent ground loops. Failure to comply may result in Not OK or NO DATA conditions, inaccurate readings, or proTIM-C damage. Consult the factory for further information.











## **Specifications**

All specifications are at +25  $\pm$  5 °C (+77  $\pm$  9 °F) unless otherwise specified.

Operation outside the specified limits will result in false or inaccurate readings.

Table 2: ProTIM and Transducers Frequency
Responses

Device	Lower Freq	Upper Freq
200250-01	1 Hz	1 KHz
200250-05	1 Hz	1 KHz
200250-06 AV	1 Hz	1 KHz <sup>1</sup>
200250-06 AE	1 Hz	500 Hz <sup>1</sup>
200150 XDCR	10 Hz	1 KHz
200155 XDCR	3 Hz	10 KHz²
200157 XDCR	10 Hz	10 KHz

 $<sup>^{\</sup>rm 1}$  2002XX-06 ProTIM AE circuitry allows enveloping input frequency up to 10 KHz.

# 200250 proTIM-C and 200150, 200155, 200157 or 200125 transducer systems

For detailed specification on the transducers, refer to the individual transducer data sheets.

# Electrical: A-V (General Purpose) Channels (with 200150)

Measurement Range

0 to 50 mm/s pk (0 to 2 in/s pk)

Over Range

63 mm/s pk (2.5 in/s pk)

Resolution

0.025 mm/s (0.001 in/s pk)

nominal

Accuracy

 $\pm 15\%$  at 80 Hz

### Frequency Response<sup>1</sup>

10 Hz to 1 kHz (600 cpm to 60,000 cpm) ±20% (± 2 dB).

#### Not OK Range

Open transducer signal, power, or common is "Not OK". Shorted leads are "Not OK" except for SIG+ shorted to SIG- or common shorted to shield

# Electrical: Low Frequency A–V Channels (with 200155)

Measurement Range

0 to 50 mm/s pk (0 to 2 in/s pk)

**Over Range** 

63 mm/s pk (2.5 in/s pk)

Resolution

0.025 mm/s (0.001 in/s pk)

nominal

**Accuracy** 

±15% at 80 Hz

### Frequency Response<sup>1</sup>

3 Hz to 1 kHz (180 cpm to 60,000 cpm)  $\pm$  10% ( $\pm$ 0.9 dB)  $^2$ .

#### Not OK Range

Open transducer signal, power, or common is "Not OK". Shorted leads are "Not OK" except for SIG+ shorted to SIG- or common shorted to shield.

<sup>&</sup>lt;sup>2</sup> 200155 has a long settling time. Therefore, it should only be used for low frequency acceleration to velocity channel types.

<sup>&</sup>lt;sup>1</sup> This Frequency response represents the System ProTIM & Transducer. For details on individual device frequency response refer to Table 2

<sup>&</sup>lt;sup>1</sup> This Frequency response represents the System ProTIM & Transducer. For details on individual device frequency response refer to Table 2

<sup>&</sup>lt;sup>2</sup> The A-V circuitry attenuates frequencies above 1 kHz. Use of the 200155 transducer to obtain higher frequency information will be ineffective.

### Electrical: A-V w/ AE Channels (with 200157)

Measurement Range

0 to 50 mm/s pk (0 to 2 in/s pk)

Over Range

63 mm/s pk (2.5 in/s pk)

Resolution

0.025 mm/s (0.001 in/s pk)

nominal

**Accuracy** 

±15% at 80 Hz

Frequency Response<sup>1</sup>

A-V

10 Hz to 1 kHz (600 cpm to 60,000 cpm)  $\pm$  20% ( $\pm$  2.0 dB)  $^2$ . See Table 2

ΑE

10 Hz to 500 Hz (600 cpm to 30,000 cpm)  $\pm$  20% ( $\pm$ 2.0 dB) <sup>3</sup>

#### Not OK Range:

Open transducer signal, power, or common is "Not OK". Shorted leads are "Not OK" except for SIG+ shorted to SIG- or common shorted to shield.

Table 3: ProTIM and Transducers Compatibility

Device	200150	200155	200157
200250-01	Great	N/A	OK <sup>1</sup>
200250-05	OK <sup>2</sup>	Great	OK <sup>2</sup>
200250-06	OK <sup>3</sup>	N/A	Great

<sup>1</sup> ProTIM does not offer AE capability and will only accept frequencies up to 1 KHz whereas 200157 will go up to 10 KHz.

<sup>2</sup>Lower transducer limit is 10 Hz, whereas 200155 will operate down to 3 Hz.

 $^3$  ProTIM's AE circuit accepts frequencies up to 10 KHz, but 200150 operates only up to 1 KHz.

## **Electrical: Temperature Channels**

Measurement

Range

-18 °C to +204 °C (0 °F to +400 °F)

Resolution

0.07 °C (0.12 °F)

Accuracy

K-Type TC

 $\pm 8$  °C ( $\pm 14$  °F), including proTIM-C, thermocouple & lead wire error, maximum length of 6 meters.

RTD

±4.45 °C (±8 °F), RTD lead wire

error not included

**OK Range** 

-31 °C to +213 °C (-25 °F to +415

°F)

Not OK Condition

Temperatures outside the OK

Range

Open RTD or thermocouple wires

are "Not OK"

<sup>&</sup>lt;sup>1</sup> This Frequency response represents the System ProTIM & Transducer. For details on individual device frequency response refer to Table 2

<sup>&</sup>lt;sup>2</sup> The A-V circuitry attenuates frequencies above 1 kHz. Use of the 200157 transducer to obtain higher frequency information will be ineffective. AE signals up to 10 kHz are processed at the proTIM.

<sup>&</sup>lt;sup>3</sup> The 500 Hz filter has a 4-pole attenuation slope. The enveloped signal will range between 1Hz to 500 Hz.

RTD

Compensation Coefficient Alpha in  $\Omega/\Omega/^{\circ}C$ 

European

0.00385

**US Industrial** 

0.00392

Software Compensation

At host computer

Electrical: Rack Buffered Output Channels

Measurement Range

> AC: 1Vpp to 8Vpp full scale DC: 0 to -20Vdc (See Table 2)

Table 2:Input Signal and Range

Input Signal	Full Scale	Overrange
LOAC_IN	1.6Vpp	1.92Vpp
HIAC_IN	8Vpp	9.6Vpp
DCGAP_IN	DC: -20VDC AC: 1Vpp	DC: -24VDC AC: 5.3Vpp

Resolution

AC: ±1% of full-scale value at

100Hz

DC: ±100 mV, absolute accuracy

Frequency Response

10Hz to 3 KHz (+0 to -5%)

Not OK Range

Input signal is out of range, Input signal miswired.

Electrical: Process Variable Channels

Measurement

Range

Current: +4mA to +20mA Voltage: +1Vdc to 5Vdc

**Over Range** 

Current: <+3mA or >+22mA Voltage: <+0.8Vdc or >+5.5Vdc Resolution

±1% of full-scale value Typical

**OK Range** 

Current: Over +3.2mA Voltage: Over 0.8Vdc

Frequency Response

DC to 3 KHz

**Electrical: Pressure Channels** 

Measurement Range

0 to 50mV

Resolution

±8.5% of the transducer full-scale rating (transducer accuracy not

included)

**OK Range** 

1Vdc to 3Vdc Bias from

transducer

Frequency Response

Less than 3 KHz

**Keyphasor Rotational Speed Channels (with** 330101/330103)

Measurement Range

0.1 to 600 Hz (6 to 36000 RPM)

Transducer Range

10 to 50 mils (0.254 to 1.27 mm)

Resolution

1 RPM

Accuracy

Within 0.015% of true RPM

Frequency Response

Minimum Trigger Width 9.0 mm

(0.35 in)

Specifications and Ordering Information Part Number 163663-01 Rev. N (04/13)

Minimum Trigger Relief 1.25 mm (0.05 in)

Not OK Range

Open/short transducer signal, Power or common is "Not OK".

Displacement Channels (with 330101/330103)
Input

Used with our 3300 XL 8 mm probe or 3300 5 mm probe and extension cable (5 metre system) only.

Output Voltage Range

-3.0 to 3.0 V (Over Specified linear range)

Transducer Linear Range

10 to 50 mils (0.254 to 1.27 mm)

**Scale Factor** 

120 mV/mil +/-10%

Accuracy Over gap Range

+/-1.2 mils @ mid-scale range.

Frequency Response

DC to 3 KHz (0 to 180,000 cpm).

Minimum Target size

15.2 mm (0.6in) diameter (flat

target)

**Shaft Diameter:** 

Minimum: 50.8 mm (2 in)

Recommended minimum: 76.2

mm (3 in)

Measurements on shaft diameters smaller than 50 mm (2 in) usually require close spacing of radial vibration or axial position transducers with the potential for their electromagnetic emitted fields to interact with one another (cross-talk), resulting in erroneous readings. Care should be taken to maintain minimum separation of

transducer tips, generally at least 40 mm (1.6 in) for axial position measurements or 74 mm (2.9 in)

for radial vibration

measurements. Radial vibration or position measurements on shaft diameters smaller than 76.2 mm (3 in) will generally result in a change in scale factor. Consult Performance Specification 159484 for additional information.

Not OK Range

Open/short transducer signal, Power or common is "Not OK".

**Environmental Limits** 

Operating Temperature

-40 °C to +85 °C (-40 °F to +185

°F)

Storage Temperature

-40°C to +100°C (-40 °F to +212

°F)

Humidity

100% condensing on exposed

surfaces.

100% noncondensing on surface

inside conduit.

**Note:** Apply DC4 grease on connecter contacts to improve environmental

performance and prevent corrosion.

Enclosure Type

Type 4

Mechanical Housing Material

Powder-coated Aluminum

Weight

620 g (22 oz) not including conduit

body

Dimensions

See diagram

**Electromagnetic Compatibility** 

**Standards** 

EN 61000-6-2 Immunity for Industrial Environments.

EN 61000-6-4 Emissions for Industrial Environments.

EN 55011 (2007), ISM Equipment.

European Community Directives

EMC Directive 2004/108/EC.

For further certification and approvals information please visit the following website:

www.ge-mcs.com/bently

Hazardous Area Approvals

**CSA** 

Installed with intrinsically safe zener barriers per drawing 162084

Class I, Div 1 Groups A, B, C & D

Class II, Div 1 Groups E, F & G

Class III, Div 1

AEx ia/Ex ia IIC; Class I Zone 0 T4

T4 @ -40 °C ≤ Ta ≤ +100 °C

Installed without barriers per drawing 162085

Class I, Div 2 Groups A, B, C & D

AEx nA/Ex nA IIC, Class I Zone 2 T4

T4 @ -40 °C ≤ Ta ≤ +100 °C

**ATEX Approvals** 

Installed with intrinsically safe zener barriers per drawing 162084

 $\langle \mathcal{E}_{\mathbf{x}} \rangle$  II 1 G Ex ia IIC T4 Ga T4 @ -40 °C ≤ Ta ≤ +100 °C

Installed without barriers per drawing 162085

 $\langle E_{X} \rangle$ 

II 3 G

Ex nA IIC T4 Gc

T4 @ -40 °C ≤ Ta ≤ +100 °C

IEC Ex Approvals

Installed with intrinsically safe zener barriers per drawing 162084

Ex ia IIC T4 Ga

T4 @ -40 °C ≤ Ta ≤ +100 °C

Installed without barriers per drawing 162085

Ex nA IIC T4 Gc

T4 @ -40 °C ≤ Ta ≤ +100 °C

Brazil

BR-Ex ia IIC T4 MC, AEX-8307-X

BR-Ex nA II T4 AEX-12678-X

T4 @ -40 °C ≤ Ta ≤ +100 °C

Intrinsically safe entity parameters

Maximum Number of ProTIMs Per Line

32 (all gas groups)

Power Supply Requirements

Ui≤ 15V

C<sub>i</sub>≈ 0 (negligible)

 $l_i \le 150 \text{ mA}$ 

L<sub>i</sub>≈ 0 (negligible)

Signal Terminals

 $U_i \le 12V$   $I_i \le 12 \text{ mA}$ 

Field Wiring Parameters

See Table 4.

#### Table 4: ProTIM-C Field Wiring Parameters

Gas Group	Capacitan ce (µF)	Inductan ce (mH)	L/R (µH/oh m)
IIC	0.09	2	16
IIB	0.705	8	64
IIA	2.23	16	130

Non-incendive (Zone 2 or Div 2) entity parameters

> Power Supply Requirements

> > $U_n = 12 V \text{ to } 15 V \text{ (nominal)}$

 $I_n = 50 \text{ mA (nominal)}$ 

Maximum Cable Length

See Table 5.

Maximum Number of ProTIMs per Line

See Table 5.

Table 5: Maximum Cable Length and Number of proTIMs per Line

Gas Group	Maximum Cable Length	Maximum Number of ProTIMs per line
IIC	1000	125
IIB	3599	127
IIA	4876	127

For further certification and approvals information please visit the following website:

www.ge-mcs.com/bently

### 200151 Transducer Cables

Used to connect the 200150, 200150, and 2000157 transducers to the proTIM-C.

# Operating Temperature

-20 °C to +100 °C (-4 °F to +212 °F).

Note: These cables may be used at lower temperatures down to -40 °C (-40 °F), if the cable is not allowed to move or flex. Flexing these cables at temperatures below -20 °C (-4 °F) may damage them.

### Minimum Bend Radius

63.5 mm (2.5 in)

#### Construction

4-conductor (22 AWG) with foil shield and drain wire (100% coverage), polyvinyl chloride (PVC) outer jacket.

### Connectors

Screw-on, 5-pin, keyed connector on the ProTIM-C end and a PT06F8-4S (or equivalent) on the transducer end. Connector coupling nuts consist of 1/2-20 UNF-threaded 2011 T3 aluminum or UV-stabilized black nylon. Contact material is gold-plated nickel-coated brass.

#### **Classifications:**

Cable assembly meets UL 2238.

Cable meets IP67 ingress

protection.

#### 85033 Trendmaster SPA/TIM line cable

Use to connect a SPA to the proTIM-C. For substitutions, reference guide 101206.

Operating Temperature

-70 °C to +200 °C (-94 °F to +392 °F).

Conductors

4x 18 AWG stranded tinned copper

1x 18 AWG stranded copper, tinned overcoat uninsulated drain wire

Shielding

100% aluminum mylar foil out with helically applied drain wire 85% braided tinned copper

Insulation

**Conductors** 

Fluoroethylene propylene (FEP) Teflon® insulation 0.25 mm (0.010 in) thick

Outer

FEP Teflon insulation 0.38 mm (0.015 in) thick

Classifications

NEC article 725 class 3

**UL** Listed

Voltage rating

300 Vrms

Capacitance

Between Conductors

131 pF/m (40 pF/ft)

Between Conductor and Drain Wire

262 pF/m (80 pF/ft)

## **Ordering Information**

(All conduit bodies have 1-inch hubs.)

proTIM-C

200250-AXX-BXX-CXX-DXX

A: Channel A Input Option

**0 1** Acceleration to Velocity (200150)

**02** K-Type Thermocouple (200125)

0 3 2 or 3 Wire Pt. RTD0 4 Wire Pt. RTD

0 5 Low Freq Accel-to-Velocity (200155)

0 6 Accel to Velocity w/ AE (200157)

**07** Rack buffered Output

08 Process Variable09 Pressure (200132)

10 Keyphasor (330101/330103)11 Displacement (330101/330103)

B: Channel B Input Option

O 1 Acceleration to Velocity (200150)

**02** K-Type Thermocouple (200125)

0 3 2 or 3 Wire Pt. RTD0 4 4 Wire Pt. RTD

0 5 Low Freq Accel-to-Velocity (200155)

0 6 Accel to Velocity w/ AE (200157)

**07** Rack buffered Output

08 Process Variable09 Pressure (200132)

**10** Keyphasor (330101/330103)

**11** Displacement (330101/330103)

Note: BXX option availability is dependent on AXX options chosen. Not all BXX options are available with each AXX option.

C: Approvals

OO CSA: Class 1 DIV 2, No Barriers ATEX: Zone 2, No Barriers

**05** Multi – Approvals

D: Conduit (	Body Sty	rle	Accessories	
	0 0	No conduit body	161934-01	
	01	Appleton® Style C body,		proTIM-C Installation Manual.
		malleable iron	162411	·
	02	Appleton Style E body,	102411	
	0.7	malleable iron		Trendmaster System Manual.
	03	Appleton Style C body, aluminum	149831-01	
	0 4	Appleton Style E body,		Trendmaster DSM Datasheet.
	•	aluminum		Trendinaster DSF1 Datasheet.
	0 5	Weatherproof housing mount	01620085	
Transducer Cable	(for use	with 200150, 200150, and		<b>Extra Terminal Plugs.</b> For SPA line connection. 3 terminal plugs
200157 accelerom				provided with each proTIM-C
200151-AA-BB-CC				module
Note: Use the	20015	1 with the 200250 proTIM	149326-01	
		cations using either a 142485	1,3020 01	TI 000454 4 10 11
		Adapter or a 141887 Conduit		The 200151 Accel Cable Environmental Boot Field
Cable A				Installation Kit. Contains
<b>A:</b> Cable Length:		20		everything needed to install the
	20 40	2.0 metre (6.6 feet) cable 4.0 metre (13.1 feet) cable		boot in the field. It includes 10
	60	6.0 metre (19.7 feet) cable		sets of boots and clamps, silicone
B: Armor Option				lubricant, easy-to-use installation
	02	Standard cable, unarmored.		tool, and an instruction sheet. You can purchase additional
	03	Stainless steel over braid		boots and clamps separately (see
C: Nut Option:		(armored) cable		part number below). The kit is not
C. Nut option.	0 0	Standard aluminum coupling		compatible with armored cables
		nut		and only compatible with older,
	02	Nylon coupling nut		plastic versions of
	10	Knurled aluminum coupling		accelerometers; not compatible with existing stainless steel
	Note:	nut C01, environmental boot option, is		accelerometers.
		no longer available and is not	04500006	
		necessary for use with all 3 existing stainless steel accelerometers, but	04500006	
		may be used with previous plastic		Dow Corning® 4, Electrical
		200150 sensors.		Insulating Compound (5.3 Oz).
Pressure Transdu	cer		03814231	
200132-AXXX				Compression Fitting. For 1-inch
	~			conduit body hubs. Seals for
<b>A:</b> Pressure ratin	g <b>0030</b>	0 to 30 PSI SG		cables when installing proTIM-C
	0050			modules without conduit.
	0100		85033-02-00	
	0300			<b>300 Meter (1000 ft) Cable.</b> For
	0500			TIM line.
	1000 1500			
	2000			

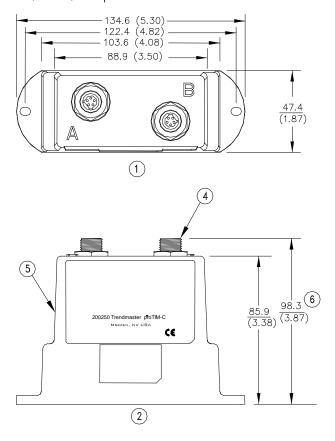
85033-01-00 163996-01 150 Meter (500 ft) Cable. For TIM proTIM-C Conduit Gasket/Cable line Seal Installation Kit. Consists of a black silicone rubber gasket/seal, 162454 three nylon hose clamps, electrical insulating compound, **Dust Cap.** For temperature channel connectors. and instructions for installation. 04400000 162438-01 Dust Cap. For accelerometer Thermocouple and RTD Connector. With smaller cable channel connectors. crimp seal. 141888 02180005 Hardware Mounting Kit. For mounting proTIM-C modules to Jumpers. For the proTIM-C weather-proof housings thermocouple or RTD terminals. 03810116 330101/330103 Red Silicone Rubber Gasket. Use 3300XL Proximity Probe. For the between proTIM-C and proTIM-C Keyphasor channel weatherproof housing. type.

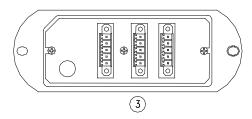
Table 6: Channel types Cross-Compatibility

				Channel A									
	The <b>200200 dual-input ProTIM-R</b> (DIN rail mount) provides 2 channels of measurement.  The <b>200250 dual-input ProTIM-C</b> (Conduit mount) provides 2 channels of measurement.		Acceleration to Velocity	K-Type Thermocouple	2 or 3 Wire Pt. RTD	4 Wire Pt. RTD	Low Freq Accel-to-Velocity	Accel to Velocity w/AE	Rack buffered Output	Process Variable	Pressure	Keyphasor	Displacement
			01	02	03	04	05	06	07	08	09	10	11
	Acceleration to Velocity 01		ОК										
	K-Type Thermocouple	02	ОК	ОК			ОК	ОК					
	2 or 3 Wire Pt. RTD	03	ОК		ОК		ОК	ОК					
	4 Wire Pt. RTD	04	ОК			ОК	ОК	ОК					
8	Low Freq Accel-to-Velocity	05	ОК				ОК	ОК					
Channel	Accel to Velocity w/AE	06						ОК					
Ch	Rack buffered Output	07							ОК				
	Process Variable	08								ОК			
	Pressure	09									ОК		
	Keyphasor	10										ОК	ОК
	Displacement	11										ОК	ОК

## **Dimensional Diagram**

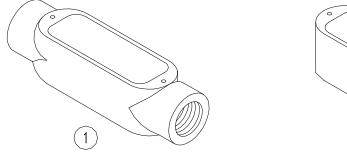
Note: All dimensions in millimetres (inches) except as noted.

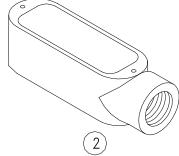




- 1. Top view
- 2. Front view
- 3. Bottom view
- 4. 1/2-20 5-pole female receptacle
- 5. Powder-coated aluminum housing
- 6. Allow 127 mm (5 in) for total height with connector and cable bend

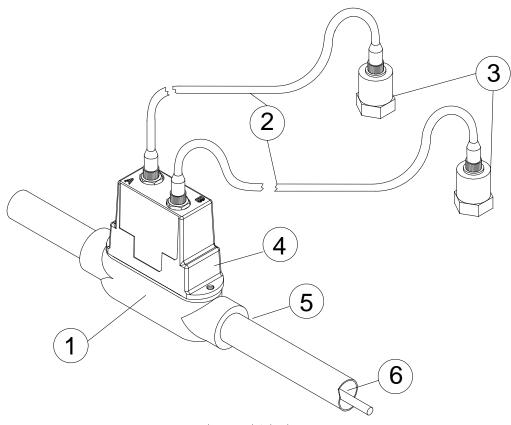
Figure 1: Dimensional Diagram and Wiring Connection Details





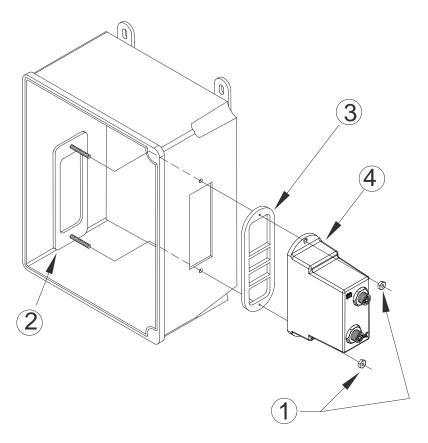
- 1. Style C conduit body
- 2. Style E conduit body

Figure 2: Conduit Body Styles Provided With the proTIM -C



- 1. Style C conduit body
- 2. Transducer cables
- 3. Transducers
- 4. ProTIM-C module
- 5. Rigid conduit
- 6. SPA line

Figure 3: Installed proTIM -C in Style C Conduit Body



- 1. Retention nuts (2 places)
- 2. Reinforcing plate
- 3. Gasket
- 4. proTIM-C module

Figure 4: Installed proTIM -C Module with Weatherproof Housing

### По вопросам продаж и поддержки обращайтесь: btn@nt-rt.ru

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