

Field installation workbook

Bently Nevada 190501-09-99-01 - Velomitor CT Low-Frequency Velocity Transducer

Use this workbook with the approved site procedure and the manufacturer source documents. Record the complete marking and installed system before work.

FIELD RECORD	VALUE
Manufacturer	Bently Nevada
Model	190501-09-99-01
Country of origin	USA
HS code	8537101190
Shipping origin	Xiamen, Fujian, China
Availability	Stock 1 3-day lead time Fast shipping

Pre-work component match

CHECK	REQUIRED MATCH
1	compatible Velomitor CT monitor input
2	3/8-24 to 1/4-in NPT plate-stud mounting point
3	included 32 ft cable and approved junction wiring
4	rigid cooling-tower or air-cooled heat-exchanger fan structure

Pre-installation checklist

Complete every row before isolation. Use the installed nameplate and approved drawing as the controlling record.

PRE-WORK CHECK	ACCEPTANCE CONDITION
Complete model code	190501-09-99-01, plate-stud option and North America cNRTLus option 01 match the order record.
Machine state	Cooling-tower or air-cooled heat-exchanger fan is in the approved maintenance state and rotation is controlled.
Mounting point	Rigid, clean casing or support point is available for the 3/8-24 to 1/4-in NPT plate stud.
Cable route	Included 32 ft cable route, shield treatment and monitor termination are documented.
Test equipment	Bias, polarity, noise and controlled velocity-response checks are planned and traceable.
Baseline	Existing alarm action and trend baseline are recorded before removal.

Eight-step field sequence

1. Verify the complete 190501-09-99-01 marking, plate-stud execution and approval option before work.	2. Place the fan assembly and associated protection or condition-monitoring channel in the approved maintenance state.
3. Use a rigid, clean mounting surface and preserve the documented 3/8-24 to 1/4-in NPT interface.	4. Apply mounting torque of 4.5 +/-0.6 N m without side-loading the transducer body.
5. Route the included 32 ft cable with support and bend control; protect the 2-pin connector from contamination.	6. Maintain the shield and signal termination exactly as shown on the installed monitor drawing.
7. Verify bias voltage, broadband noise and polarity before accepting the low-frequency velocity signal.	8. Compare the controlled fan response with the established baseline and record the final alarm action.

Controlled return to service

ACCEPTANCE TEST	FIELD RECORD
Bias and polarity	10.1 Vdc +/-1 Vdc bias, stable polarity and clean connector termination.
Signal quality	Broadband noise floor and dynamic response are within the approved channel expectation.
Mechanical record	Mounting torque 4.5 +/-0.6 N m, cable route and support points recorded.
Functional proof	Controlled fan response, alarm action and trend baseline checked before release.

Commissioning record

Record measured values and sign off only after the installed transducer and monitor channel have passed the approved checks.

CHECK	REFERENCE	RECORDED VALUE
Installed model and approval option	190501-09-99-01 / option 01	
Mounting torque	4.5 +/-0.6 N m	
Bias voltage	10.1 Vdc +/-1 Vdc	
Noise floor	0.229 mm/s peak nominal reference	
Frequency response	3 to 900 Hz +/-1 dB; 1.5 Hz to 1 kHz +/-3 dB	
Cable / connector	32 ft cable; 2-pin MIL-C-5015	
Alarm and trend	Controlled fan response and alarm action	
Technician / date	Name, date and work order	

Related products and source record

Use the linked Bently Nevada pages to identify adjacent Velomitor CT and velocity-transducer configurations.

BRAND + MODEL	PRODUCT ROLE	APTER POWER PAGE
Bently Nevada 190501-02-99-00	Velomitor CT velocity transducer	View Bently Nevada 190501-02-99-00 page
Bently Nevada 190501-10-00-00	Velomitor CT velocity transducer	View Bently Nevada 190501-10-00-00 page
Bently Nevada 190501-12-00-01	Velomitor CT velocity transducer	View Bently Nevada 190501-12-00-01 page
Bently Nevada 190501-01-00-04	Velomitor CT velocity transducer	View Bently Nevada 190501-01-00-04 page
Bently Nevada 190501-12-00-02	Velomitor CT velocity transducer	View Bently Nevada 190501-12-00-02 page
Bently Nevada 330500-07-00	Velomitor CT velocity transducer	View Bently Nevada 330500-07-00 page
Bently Nevada 330500-01-00	Velomitor CT velocity transducer	View Bently Nevada 330500-01-00 page
Bently Nevada 330525-00	Velocity transducer system accessory	View Bently Nevada 330525-00 page

Source identifiers

Bently Nevada 190501 Velomitor CT Transducer Datasheet - 141636 Rev. AF. Approval option reference: Approvals Quick Reference Guide - 108M1756. This workbook is an Apter Power field aid; the manufacturer documents control final installation decisions.

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