INDUSTRIAL AUTOMATION PRODUCT

190501-12-00-01

Velomitor CT Cooling Tower Transducer

Bently Nevada 190501-12-00-01 is a Velomitor CT transducer with the code 12 plate-stud execution, MIL-C-5015 connection and agency approval option 01 for low-frequency cooling-tower and air-cooled heat-exchanger fan vibration monitoring.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 190501 Velomitor CT system
Part number	190501-12-00-01
Origin / HS	USA / 8537101190
Shipping origin	Xiamen, Fujian, China

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Confirm 190501-12-00-01, cooling-tower or air-cooled heat-exchanger fan monitoring channel, plate stud, MIL-C-5015 connector and shielded signal cable, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

System Role and Architecture

Bently Nevada 190501-12-00-01 is a Velomitor CT transducer with the code 12 plate-stud execution, MIL-C-5015 connection and agency approval option 01 for low-frequency cooling-tower and air-cooled heat-exchanger fan vibration monitoring.

FUNCTION 1
Targets low-frequency fan and cooling-tower vibration

FUNCTION 2
Uses the code 12 M8 x 1 plate-stud execution

FUNCTION 3
Uses a MIL-C-5015 connector interface

FUNCTION 4
Carries the documented approval option 01

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Bently Nevada 190501 Velomitor CT system
02	cooling-tower or air-cooled heat-exchanger fan monitoring channel
03	plate stud, MIL-C-5015 connector and shielded signal cable
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 190501 Velomitor CT system
Interface role	low-frequency casing velocity measurement
Field / power context	cooling-tower or air-cooled heat-exchanger fan monitoring channel
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

1. Confirm the complete 190501-12-00-01 marking and controlled maintenance record before work.
2. Place the cooling-tower or air-cooled heat-exchanger fan monitoring channel and associated machine or process in the approved maintenance state.
3. Isolate the documented power, signal and protection circuits before disconnecting 190501-12-00-01.
4. Record the installed position, plate stud, MIL-C-5015 connector and shielded signal cable, polarity, shielding and grounding.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE
Ordering family	190501 Velomitor CT
Mounting code 12	Plate stud, 3/8-24 to M8 x 1
Connection code 00	MIL-C-5015 connector interface
Approval code 01	Agency-approved execution

PARAMETER	VALUE
Typical machinery speed	100 to 300 rpm; suitable from 90 rpm
Country of origin	USA
HS code	8537101190

ENGINEERING BOUNDARY

Confirm 190501-12-00-01, cooling-tower or air-cooled heat-exchanger fan monitoring channel, plate stud, MIL-C-5015 connector and shielded signal cable, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

PRE-INSTALLATION CHECKS

1. Confirm the complete 190501-12-00-01 marking and controlled maintenance record before work.
2. Place the cooling-tower or air-cooled heat-exchanger fan monitoring channel and associated machine or process in the approved
3. Isolate the documented power, signal and protection circuits before disconnecting 190501-12-00-01.
4. Record the installed position, plate stud, MIL-C-5015 connector and shielded signal cable, polarity, shielding and grounding.

Applications and Engineering Context

Cooling-tower fan monitoring

Measures casing velocity on low-speed cooling-tower fan assemblies.

Air-cooled heat-exchanger fans

Monitors low-frequency bearing-housing vibration.

Low-speed balance verification

Supports controlled fan response and trend checks.

Sensor replacement

Preserves mounting, connector and channel identity.

TECHNICAL NOTE

Confirm 190501-12-00-01, cooling-tower or air-cooled heat-exchanger fan monitoring channel, plate stud, MIL-C-5015 connector and shielded signal cable, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	190501-12-00-01 recorded
Host / carrier	Bently Nevada 190501 Velomitor CT system
Physical interface	plate stud, MIL-C-5015 connector and shielded signal cable matched
Configuration	Exact installed configuration and assignments restored
Functional proof	Controlled low-frequency casing velocity measurement response recorded

IMPORTANT NOTICE

Confirm 190501-12-00-01, cooling-tower or air-cooled heat-exchanger fan monitoring channel, plate stud, MIL-C-5015 connector and shielded signal cable, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER	
01	Bently Nevada 330173-00-06-10-02-00
02	Bently Nevada 330780-91-05
03	Bently Nevada 330709-000-050-10-12-05
04	Bently Nevada 330706-005-046-10-02-00
05	Bently Nevada 330704-0-50-10-02-05
06	Bently Nevada 330500-07-00
07	Bently Nevada 330705-02-18-10-02-00
08	Bently Nevada 330701-00-10-10-02-00

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

190501 Velomitor CT Transducer Datasheet | Bently Nevada publication 141636 Rev. AF

APTER POWER SALES TEAM

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