

INDUSTRIAL AUTOMATION PRODUCT

3500/70M 176449-09

3500/70M Recip Impulse/Velocity Monitor

Bently Nevada 3500/70M 176449-09 is the Recip Impulse/Velocity Monitor for reciprocating-compressor protection; 135489-01 is a separate I/O-module option and is not part of this main model identity.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3500 reciprocating compressor monitoring
Part number	3500/70M 176449-09
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 3500/70M 176449-09, 3500 rack with the selected compatible I/O module, monitor slot, selected I/O module, transducer channels and rack configuration, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

System Role and Architecture

Bently Nevada 3500/70M 176449-09 is the Recip Impulse/Velocity Monitor for reciprocating-compressor protection; 135489-01 is a separate I/O-module option and is not part of this main model identity.

FUNCTION 1
Identifies monitor order 176449-09

FUNCTION 2
Supports reciprocating impulse and velocity protection

FUNCTION 3
Accepts approved transducer types through selected I/O

FUNCTION 4
Keeps separate I/O module numbers out of the main model identity

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Bently Nevada 3500 reciprocating compressor monitoring
02	3500 rack with the selected compatible I/O module
03	monitor slot, selected I/O module, transducer channels and rack configuration
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 3500 reciprocating compressor monitoring
Interface role	reciprocating-compressor impulse and velocity monitoring
Field / power context	3500 rack with the selected compatible I/O module
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 3500/70M 176449-09 marking and controlled maintenance record before work.
- 2

Place the 3500 rack with the selected compatible I/O module and associated machine or process in the approved maintenance state.
- 3

Isolate the documented power, signal and protection circuits before disconnecting 3500/70M 176449-09.
- 4

Record the installed position, monitor slot, selected I/O module, transducer channels and rack configuration, polarity, shielding and grounding.

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Order number	176449-09	I/O boundary	135489-01 is a separate internal-barrier I/O module
Monitor	3500/70M Recip Impulse/Velocitor Monitor	Country of origin	USA
Application	Reciprocating compressor protection	HS code	8537101190
Compatible inputs	Approved proximity, accelerometer or Velomitor		

ENGINEERING BOUNDARY

Confirm 3500/70M 176449-09, 3500 rack with the selected compatible I/O module, monitor slot, selected I/O module, transducer channels and rack configuration, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 3500/70M 176449-09 marking and controlled maintenance record before work.
- 2

Place the 3500 rack with the selected compatible I/O module and associated machine or process in the approved maintenance state.
- 3

Isolate the documented power, signal and protection circuits before disconnecting 3500/70M 176449-09.
- 4

Record the installed position, monitor slot, selected I/O module, transducer channels and rack configuration, polarity, shielding and

Applications and Engineering Context

Reciprocating compressor protection

Monitors configured impulse and velocity channels.

Frame vibration monitoring

Uses approved seismic transducer inputs.

Impulse event detection

Supports configured mechanical-impact alarms.

3500 rack service

Preserves monitor and I/O identities separately.

TECHNICAL NOTE

Confirm 3500/70M 176449-09, 3500 rack with the selected compatible I/O module, monitor slot, selected I/O module, transducer channels and rack configuration, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	3500/70M 176449-09 recorded
Host / carrier	Bently Nevada 3500 reciprocating compressor monitoring
Physical interface	monitor slot, selected I/O module, transducer channels and rack configuration matched
Configuration	Exact installed configuration and channel assignments restored
Functional proof	Controlled reciprocating-compressor impulse and velocity monitoring response recorded

IMPORTANT NOTICE

Confirm 3500/70M 176449-09, 3500 rack with the selected compatible I/O module, monitor slot, selected I/O module, transducer channels and rack configuration, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test

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 330101-00-70-10-02-CN
02	Bently Nevada 330103-00-03-90-12-05
03	Bently Nevada 330876-02-50-01-00
04	Bently Nevada 330380-90-00-352844
05	Bently Nevada 330902-04-48-10-02-00
06	Bently Nevada 330908-00-67-10-01-00
07	Bently Nevada 330908-00-20-10-02-00
08	Bently Nevada 330102-00-30-10-02-05

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

3500/70M Recip Impulse/Velocity Monitor Datasheet | Bently Nevada publication 166766 Rev. R

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