

3500/77M 176449-07

3500/77M Recip Cylinder Pressure Monitor

CONTROLLED ENGINEERING COPY

Bently Nevada 3500/77M 176449-07 is a four-channel cylinder-pressure monitor for reciprocating-compressor protection and performance measurements in a 3500 rack.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	3500/77M 176449-07
Manufacturer	Bently Nevada
System family	Bently Nevada 3500 reciprocating compressor monitoring
HS code	8537101190
Shipping origin	Xiamen, Fujian, China



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01 PRE-INSTALLATION PLAN

- 1

Confirm the complete 3500/77M 176449-07 marking and controlled maintenance record before work.
- 2

Place the 3500 rack with approved cylinder-pressure transducers and phase reference and associated machine or process in the approved maintenance state.
- 3

Isolate the documented power, signal and protection circuits before disconnecting 3500/77M 176449-07.
- 4

Record the installed position, pressure channels, multi-event wheel, I/O module and rack configuration, polarity, shielding and grounding.
- 5

Protect connectors, terminals, cable routing and mounting surfaces from damage or contamination.

MATCHED HARDWARE

- 3500/77M 176449-07 with complete identity
- 3500 rack with approved cylinder-pressure transducers and phase reference
- pressure channels, multi-event wheel, I/O module and rack configuration
- Controlled commissioning and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	3500/77M 176449-07 recorded
Physical interface	Probe, cable and sensor matched
Functional proof	Static gap and dynamic response

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Order number	176449-07
Channels	4
Approved transducer	165855 cylinder-pressure transducer
Phase reference	Multi-event wheel input
Measurements	Suction, discharge, maximum and minimum pressure
Derived values	Compression ratio, rod load and rod reversal
Country of origin	USA
HS code	8537101190

FIELD NOTE

Confirm 3500/77M 176449-07, 3500 rack with approved cylinder-pressure transducers and phase reference, pressure channels, multi-event wheel, I/O module and rack configuration, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

RELATED APTER POWER PAGES

330104-00-15-50-12-00	330172-08-12-50-02-00	330174-00-08-50-02-05	330232-01-10-12-00
148722-01	330851-01-00-20-10-00-00	330851-02-010-140-10-00-05	330195-02-12-50-05

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	3500/77M 176449-07
Physical interface	pressure channels, multi-event wheel, I/O module and rack configuration matched
Configuration	Exact installed configuration and channel assignments restored
Functional proof	Controlled four-channel reciprocating-compressor cylinder-pressure monitoring response recorded

04 RETURN-TO-SERVICE RECORD

- ☐ Protect connectors, terminals, cable routing and mounting surfaces from damage or contamination.
- ☐ Restore the exact 3500 rack with approved cylinder-pressure transducers and phase reference configuration, channel assignments and mechanical arrangement.
- ☐ Review live diagnostics, bias or channel status after controlled energization.
- ☐ Verify the intended four-channel reciprocating-compressor cylinder-pressure monitoring response and retain acceptance evidence before release.

VERIFICATION RECORD

PRODUCT IDENTITY	3500/77M 176449-07
INSTALLED POSITION	Documented 3500 rack with approved cylinder-pressure transducers and phase reference position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Confirm the exact model remains assigned to the documented host position.
- ☐ Verify every mating interface and field connection against the as-found record.
- ☐ Exercise the intended product function under controlled conditions.
- ☐ Retain the diagnostic and functional-test result before release.

SOURCE IDENTIFIERS

3500/77M Recip Cylinder Pressure Monitor Datasheet | Bently Nevada publication 147485 Rev. Y