

APTER POWER

COMPLETE PRODUCT INFORMATION

3500/77M 176449-07

3500/77M Recip Cylinder Pressure Monitor

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

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3500 reciprocating

PART

3500/77M 176449-07

ORIGIN / HS

USA / 8537101190

APTER POWER

WHATSAPP / PHONE

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SHIP FROM

Xiamen, Fujian, China



PRODUCT OVERVIEW

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



Processes four cylinder-pressure channels



Uses approved 165855 pressure transducers



References crank position from a multi-event wheel



Calculates compression and rod-load measurements

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximator Sensor	AISI 4140 target

ENGINEERING CONTEXT

The product performs four-channel reciprocating-compressor cylinder-pressure monitoring in the documented 3500 rack with approved cylinder-pressure transducers and phase reference. Installation and commissioning must preserve the exact identity, interfaces and approved configuration.

TECHNICAL DATA

PARAMETER	VALUE
Order number	176449-07
Channels	4
Approved transducer	165855 cylinder-pressure transducer
Phase reference	Multi-event wheel input

PARAMETER	VALUE
Measurements	Suction, discharge, maximum and minimum pressure
Derived values	Compression ratio, rod load and rod reversal
Country of origin	USA
HS code	8537101190

TECHNICAL 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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Cylinder pressure protection

Monitors suction and discharge events.

Compressor performance

Calculates compression ratio and pressure extremes.

Rod load monitoring

Derives rod load and reversal measurements.

3500 rack service

Preserves pressure and phase-reference assignments.

PRODUCT PRECAUTIONS

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

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,

5

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

6

Restore the exact 3500 rack with approved cylinder-pressure transducers and phase reference

7

Review live diagnostics, bias or channel status after controlled energization.

8

Verify the intended four-channel reciprocating-compressor cylinder-pressure monitoring

ENGINEER FAQ

Q1 **How is the exact 3500/77M 176449-07 execution identified?**

Match the complete 3500/77M 176449-07 marking, manufacturer record and installed-position record; do not substitute by appearance.

Q2 **What documented role does 3500/77M 176449-07 perform?**

It performs four-channel reciprocating-compressor cylinder-pressure monitoring in the documented 3500 rack with approved cylinder-pressure transducers and phase reference.

Q3 **Which host must be matched before fitting 3500/77M 176449-07?**

Match the exact 3500 rack with approved cylinder-pressure transducers and phase reference, channel, rack or transducer-system position shown in the controlled site record.

Q4 **Which interfaces must be recorded for 3500/77M 176449-07?**

Record pressure channels, multi-event wheel, I/O module and rack configuration, together with mounting, polarity, shielding, grounding and cable routing.

Q5 **What isolation controls apply to 3500/77M 176449-07?**

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

Q6 **What must be restored after installing 3500/77M 176449-07?**

Restore the exact 3500 rack with approved cylinder-pressure transducers and phase reference configuration, channel assignments and mechanical arrangement.

Q7 **What proves 3500/77M 176449-07 is ready for service?**

Retain diagnostics and a controlled four-channel reciprocating-compressor cylinder-pressure monitoring response test with alarms or interlocks where applicable.

Q8 **Which manufacturer record supports the 3500/77M 176449-07 page?**

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

RELATED APTER POWER PAGES

330101-00-08-10-01-00	330101-00-13-30-02-05	330104-04-10-50-02-05	330101-51-82-10-01-05
330101-35-62-10-01-05	330102-00-83-50-02-05	330104-00-09-50-02-00	330104-00-09-90-02-00

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

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