

INDUSTRIAL AUTOMATION PRODUCT

3500/64M 176449-05

3500/64M Dynamic Pressure Monitor

Bently Nevada 3500/64M 176449-05 is a single-slot four-channel dynamic pressure monitor for configured gas-turbine combustor pressure protection and diagnostics.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3500 machinery protection system
Part number	3500/64M 176449-05
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 3500/64M 176449-05, 3500 rack with approved pressure-transducer I/O, pressure inputs, I/O module, recorder outputs and rack configuration, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

System Role and Architecture

Bently Nevada 3500/64M 176449-05 is a single-slot four-channel dynamic pressure monitor for configured gas-turbine combustor pressure protection and diagnostics.

FUNCTION 1
Monitors four dynamic-pressure channels

FUNCTION 2
Fits one full-height 3500 rack slot

FUNCTION 3
Supports documented two-wire and three-wire input arrangements

FUNCTION 4
Provides configured 4-20 mA recorder outputs

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Bently Nevada 3500 machinery protection system
02	3500 rack with approved pressure-transducer I/O
03	pressure inputs, I/O module, recorder outputs and rack configuration
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 3500 machinery protection system
Interface role	four-channel dynamic combustor pressure monitoring
Field / power context	3500 rack with approved pressure-transducer I/O
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 3500/64M 176449-05 marking and controlled maintenance record before work.
- 2

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

Isolate the documented power, signal and protection circuits before disconnecting 3500/64M 176449-05.
- 4

Record the installed position, pressure inputs, I/O module, recorder outputs 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	176449-05	Input options	3-wire -24 VDC or 2-wire 3.3 mA at 22 V
Channels	4	Filtering	High-pass and low-pass modes by channel pair
Rack requirement	Single full-height 3500 slot	Country of origin	USA
Inputs	One to four approved pressure transducer signals	HS code	8537101190
Recorder output	4-20 mA per configured channel		

ENGINEERING BOUNDARY

Confirm 3500/64M 176449-05, 3500 rack with approved pressure-transducer I/O, pressure inputs, I/O module, recorder outputs and rack configuration, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 3500/64M 176449-05 marking and controlled maintenance record before work.
- 2

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

Isolate the documented power, signal and protection circuits before disconnecting 3500/64M 176449-05.
- 4

Record the installed position, pressure inputs, I/O module, recorder outputs and rack configuration, polarity, shielding and grounding.

Applications and Engineering Context

Combustor pressure monitoring

Measures configured gas-turbine dynamic pressure.

Combustion diagnostics

Supports filtered pressure-band analysis.

3500 rack protection

Generates alarms from assigned pressure channels.

Monitor replacement

Preserves I/O and rack configuration.

TECHNICAL NOTE

Confirm 3500/64M 176449-05, 3500 rack with approved pressure-transducer I/O, pressure inputs, I/O module, recorder outputs 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	3500/64M 176449-05 recorded
Host / carrier	Bently Nevada 3500 machinery protection system
Physical interface	pressure inputs, I/O module, recorder outputs and rack configuration matched
Configuration	Exact installed configuration and channel assignments restored
Functional proof	Controlled four-channel dynamic combustor pressure monitoring response recorded

IMPORTANT NOTICE

Confirm 3500/64M 176449-05, 3500 rack with approved pressure-transducer I/O, pressure inputs, I/O module, recorder outputs and rack configuration, 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 330101-04-30-05-01-05
02	Bently Nevada 330101-00-16-05-02-00
03	Bently Nevada 330101-00-16-10-11-05
04	Bently Nevada 330103-00-22-50-12-05
05	Bently Nevada 330103-00-25-05-02-BR
06	Bently Nevada 330103-00-16-50-12-05
07	Bently Nevada 330103-00-13-50-12-05
08	Bently Nevada 330180-12-05

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

3500/64M Dynamic Pressure Monitor Datasheet | Bently Nevada publication 141536 Rev. T

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