

143729-01

3500/77M Cylinder Pressure I/O Module with Internal Terminations

PRODUCT TECHNICAL REFERENCE

Bently Nevada 143729-01 is the internal-termination Cylinder Pressure I/O Module for the 3500/77M Recip Cylinder Pressure Monitor. It interfaces approved positive-voltage pressure transducers with the monitor's cylinder-pressure measurement channels.

OFFICIAL SOURCE

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

Verified technical profile

3500/77M Cylinder Pressure I/O Module with Internal Terminations

Host monitor	3500/77M
I/O function	Cylinder pressure
Termination	Internal
Input impedance	50 kohm
Transducer supply	+23.0 +/-0.8 Vdc
Current limiting	24.5 mA per channel
Pressure-channel frequency response	0-5.5 kHz
Operating temperature	-30 to 65 deg C
Rack position	Full-height rear slot
Supported transducers	Bently-approved positive-voltage pressure transducers

Dimensions and weight are intentionally excluded from the product fields for this batch.

System role and engineering boundaries

Bently Nevada 143729-01 is the internal-termination Cylinder Pressure I/O Module for the 3500/77M Recip Cylinder Pressure Monitor. It interfaces approved positive-voltage pressure transducers with the monitor's cylinder-pressure measurement channels.

1

Provides internal termination for reciprocating-cylinder pressure inputs

2

Feeds conditioned transducer signals to the paired 3500/77M monitor

3

Supports the monitored chamber measurements used for compressor protection

4

Keeps the pressure I/O connection within the 3500 rack architecture

ENGINEERING NOTE

Install 143729-01 in the rear I/O position paired with the correct 3500/77M monitor and use only its internal termination headers. Verify transducer polarity, channel scale data and the required monitor firmware and configuration-software revisions before enabling alarms.

Industrial application matrix

Four source-supported operating contexts for this exact product.

Reciprocating-compressor cylinder monitoring

Connects cylinder pressure transducers used for chamber pressure measurements.

Suction and discharge pressure supervision

Supports monitor calculations used to observe pressure behavior across the compressor cycle.

Rod load protection calculations

Provides input data used by the monitor's peak compression, peak tension and reversal calculations.

Compressor alarm commissioning

Supports channel configuration and alarm testing for a 3500/77M protection installation.

Related-series navigation

Eight verified Apter Power product pages, kept separate from the manufacturer source record.

RELATED APTER POWER SERIES PAGES	
01	16925-30 seismic interconnect cable
02	330130-080-02-05 extension cable
03	330104-00-08-10-02-05 proximity probe
04	330930-065-01-05 NSv extension cable
05	330902-00-90-10-01-05 armored proximity probe
06	330901-00-14-10-02-00 NSv proximity probe
07	330909-00-60-10-01-00 armored NSv probe
08	330180-12-05 Proximitor sensor

Navigation links only - not manufacturer evidence for technical parameters.

SOURCE RECORD

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

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