

iT501 Communication Module RS-232 serial interface

Features

- Digital serial communication using RS232
- 9600 Baud communication rate
- Connects one iT100 Series vibration transmitter to computer
- Daisy-chain of single RS232 type serial connection
- Built-in temperature sensor
- Communication indicators

Benefits

- Remote data availability for monitoring
- No need for RS485 interface for multiple module connections
- Use a standard computer serial port
- Communication indicator lights provide visual status of properly connected modules and active communication

The iT501 Communication Module allows the user the ability to digitally communicate with the iT100/200/300 Series of vibration transmitter modules. The communication uses a "standard" RS232 serial communication protocol. Computers or other digital devices can interface to the iT Series of vibration transmitters to request data using a typical RS232 serial port.

Multiple iT501 modules can be "daisy-chained" such that a single RS232 serial port can be used to communicate with multiple iT501's.

Each iT501 interfaces to a single iT Series vibration transmitter module. Multiple transmitter modules cannot be connected to a single iT501. However, multiple iT501 units can be daisy-chained. The communication baud rate is 9600 baud. This will allow communication using the RS232 serial interface over 300 feet of cable.

Computer connection (PC)

Communication type.....	RS232 serial, asynchronous ¹
Baud rate	9600
Byte format:	
Bits/Byte.....	8
Stop bits.....	1
Parity	none

Repeater connection (iT)

Communication type.....	RS232 serial, asynchronous ¹
Byte format:	
Bits/Byte.....	8
Stop bits.....	1
Parity	none
iT501 in daisy-chain	8, maximum

Electrical

Power requirements: voltage	12 VDC min, 30 VDC max
current	25 mA, typical
Turn on time.....	3 seconds
Connectors.....	4, on front
TBUS	5-pin, on rear of module ²

Environmental

Temperature	-40 to 85°C
Humidity.....	95%, non-condensing

Physical

Case	35 mm DIN rail mounting
Wide (DIN rail width).....	17.5 mm
Front panel communication LED indicators.....	TBUS, PC IT

Connection	Function
TX	transmit data
RX	receive data
COM	circuit common

Notes: ¹ Asynchronous serial communications connect the TX (transmit) of one device to the RX (receive) of the other device and the common connects directly.

² The TBUS interfaces the iT501 to the iT Series vibration transmitter modules. It is the only method to connect the iT501 to a transmitter.

See back for diagram and drawing



Due to continued research and product development, Wilcoxon Research reserves the right to amend this specification without notice.

