



# 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 <sup>1</sup>
Baud rate .....	9600
Byte format:	
Bits/Byte.....	8
Stop bits.....	1
Parity .....	none

### Repeater connection (iT)

Communication type.....	RS232 serial, asynchronous <sup>1</sup>
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 <sup>2</sup>

### 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

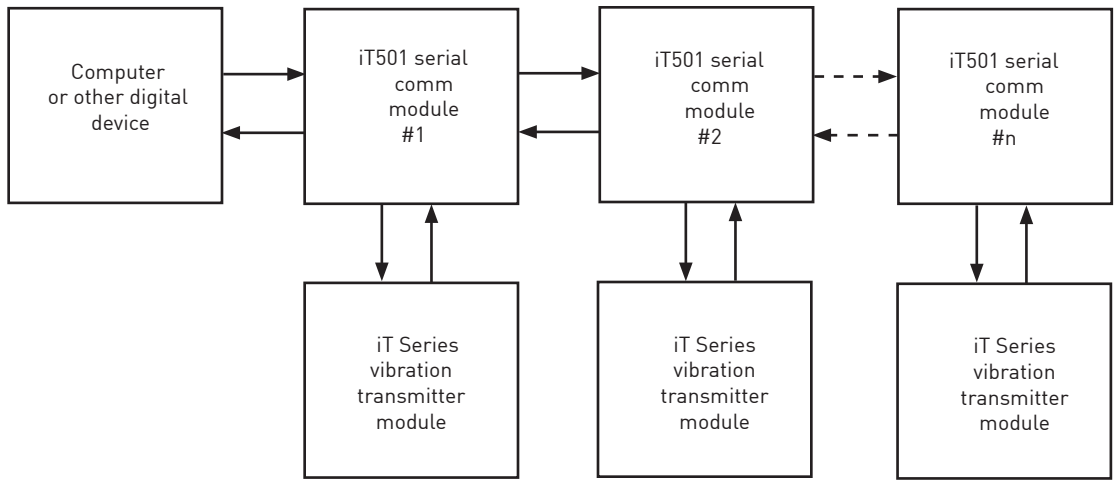
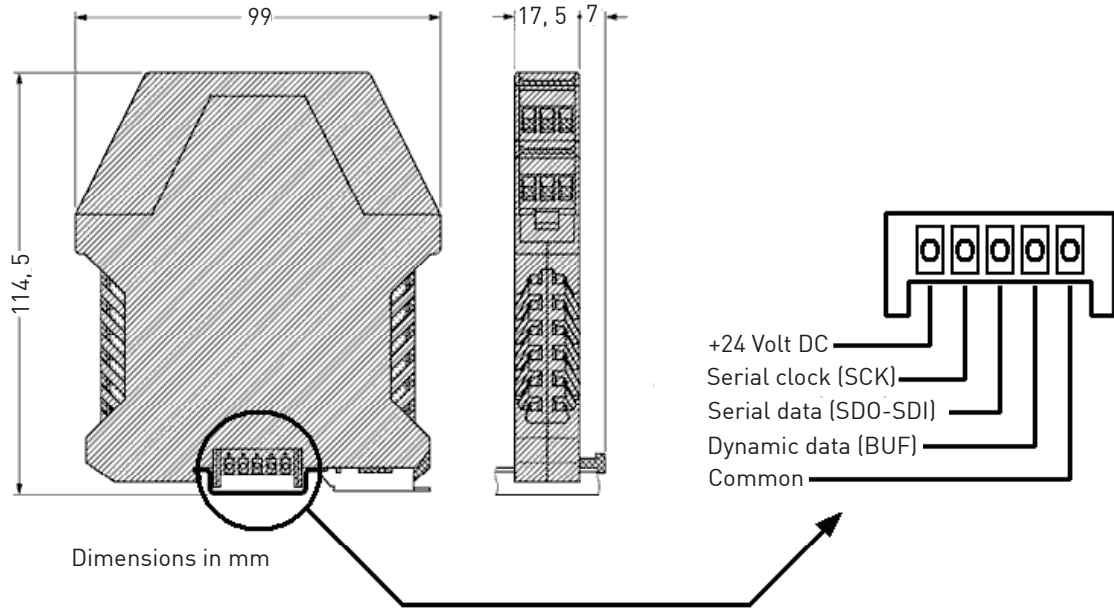
Connection	Function
TX	transmit data
RX	receive data
COM	circuit common

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

<sup>2</sup> 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





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