PT2060/96 COMM Communication/ Phase Reference Module

ProvibTech's PT2060/96 COMM communication/ Phase Reference module is a Modbus communication and phase reference module. The PT2060/96 provides (2) additional phase references and (1) additional Modbus communication port (either RS232 or RS485).

For your PT2060 System, if you require redundant communications, an additional Modbus port or require (3) or more phase references then you need to select this module.

✓ **Provides additional Modbus communication port either (RS232 or RS485)**

✓ **Provides two additional phase references**

Redundancy in communication

Coupled together with the PT2060/ 91 SIM module the PT2060/96 COMM module provides redundant Modbus communications for the PT2060 system.

Additional communication ports

If additional digital communication ports are required to communicate to other devices (PT2060 system racks, configuration PC, control systems (PLC/DCS) or the PT2060/98 System Display) the PT2060/96 COMM module would be needed.

Additional phase references

(2) Additional phase references are provided on the PT2060/96 module. A total of (4) phase references are available for the PT2060 system when the PT2060/96 COMM and the PT2060/91 SIM module are both installed.

Specifications

Electrical (Phase reference)

Power supply:

    Internally converted by the rack power supply module

    8.0W total typical for each module

Signal Input:

    Input impedance: > 20KΩ

    Input voltage range: +10 to -24VDC

Input frequency:

    < 99,999 rpm

    1 to 255 pulse/revolution

    Start at 0.0167Hz (1rpm) for proximity probes

    Start at 3.3Hz (200rpm) for magnetic pickup

Sensors:

    Proximity probes

    Magnetic pickups

Threshold:

    Auto: > 1.0 V pk-pk

    Manual: > 0.5 V pk-pk. Trigger level can be programmed from -23.9VDC to +9.9VDC

Electrical (Phase reference) Continued

Hysteresis:

0.2 - 2.5 V user selectable

Buffered Output:

On the front panel, each channel has one BNC connector. The output is the unfiltered raw signal.

Output Impedance:

150Ω

Proximity transducer Power:

-24VDC, current limited. Less than 50mA on each channel

LED Indicators:

OK/TX: green

Electrical (Modbus)

Modbus communication:

RS232: one port on the back panel.

RS485: one port on the back panel.

There is only (1) active Modbus communication port.

CE Marks

The COMM module will have a CE approval with EMC conformity.

Environmental

Temperature:

Operation: -20°C to +65°C

Storage: -40°C to +85°C

Humidity:

95% non-condensing

Physical

Each module comes with two components- the front panel assembly and the back panel assembly.

Dimensions and Location:

241mm (9.5in) X 24.5mm (0.96in)

Mounts in any of the 14 remaining slots. Slots 15 and 16 of system rack are reserved for the Power Supply and SIM modules.

Weight:

1.0 kg (2.0 lbs)

Order Information

PT2060/96-AX-BX

AX: System IO Type

A0: RS232/RS485, Modbus RTU

BX: Phase Reference

B0: None

B1: Dual phase reference

Back Panel Connectors Layout