Minebea Intec PR5220 Ethernet Transmitter

Specifications

Housing:

Housing IP20 according to DIN 40050 Mounting on DIN Rail 35 mm according to DIN 46277

Material: polyamide RoHS conform

Dimensions:

Version 00 (W x D x H): $3.9 \times 4.6 \times 1.77$ in (99 x 116 x 45 mm) Versions 01, 04, 06, 07 (W x D x H): $3.9 \times 4.6 \times 2.68$ in (99 x 116 x 68 mm)

Supply Voltage:

24 VDC, ±20%

Power Consumption:

6 W / 8 W (Versions /01, /04, /06, /07)

Control Outputs:

Quantity: 3 opto-isolated output, passive, Voltage: max. 30 VDC: Current: max. 30 mA

Functions: Limits, weight status

Control Inputs:

Quantity: 3, opto-isolated input, passive, Functions: zero setting, taring Voltage: max. 30 VDC Current: max. 10 mA

In-Output:

All I/O circuits fully galvanically isolated from sensor input and supply

Load Cell Connection:

All strain gauge load cells; 6- or 4-wire connection

Load Cell Supply:

12 V, short-circuit proof. External load cell supply possible

Minimum Load Impedance:

Min. 75 Ω e.g. 6 load cells with 600 Ω or 4 load cells with 350 Ω

Measuring Principle:

Measuring amplifier: Delta-Sigma converter Measuring time: min 5 ms - max. 1600 ms

Input Range:

7.5~mV (appr. 4.8 Mio. div.) Usable resolution: 0.2 $\mu\text{V/d}$

Input Signal:

Measuring signal: 0 to 36 mV (for 100 % nominal load)

W & M Approval (in preparation):

10,000 e class III acc. to EN 45501; according to. OIML R76, min. verification interval: 0.5 µV/e

Linearity:

< 0.002 %

Temperature Effects:

Zero: TK0 m < 0.02 μ V/K RTI Span: TKspan < +/- 2 ppm/K

Digital Filter for Load Cell:

4th order (low pass), Bessel, aperiodic or Butterworth

Ethernet Interface (functions):

Ethernet IP and Modbus/TCP

Definition of an IP address: — AutoIP; — DHCP Server classification; — manual entering of an IP address Automatic detection of signal transmission and corresponding change over (cross-over or patch cable) Webservice via SOAPIUPnP (Simple Object Access Protocol)

Synchronal Modbus UDP

Status Indicator:

Status LEDs to signal operation and error conditions.

Analogue Output:



The PR5220 Ethernet transmitter sets new standards in process instrumentation. The standard Ethernet TCP/IP interface enables easy transmission of information to super ordinate systems.

Specifications (cont.)

0 to 10 or 4-20 mA, internal resolution 16-bit, usable step-width: 0.5 μA max. load 500 0; user configurable

Serial Interfaces:

RS422/485 via screw terminals

Protocol: Remote display, SMA and Minebea digital scales (XBPI-protocol)

Electrical Connections:

All electrical connections via modular screw terminals for 2.5 mm2 max. System Phoenix/COMBICO

Temperature:

WandM: -10° C to 40° C Operation: -10° C to 50° C Storage: -40° C to 70° C

Weight:

Version 00: Net: 0.29 kg Versions 01, 04, 06, 07 Net: 0.35 kg

Standard Features

- · Configuring via VNC
- OPC server
- · Full digital signal processing with up to 4.8 Mio divisions internal resolution
- · SmartCalibration feature for fast calibration even without weights
- Requires supply voltage of 24 VDC
- · IP20 housing, DIN Rail Mount
- Verifiable with remote display up to 10,000 e, CL III (EN 45501, OIML R76)
- · Precision analog output
- Serial RS-485/422 interface
- CD supplied with software suite
- 10,000 divisions at six samples per second

Part Number/Price

Part #	Туре	Minebea Part #	Description	Price
158856	PR5220/00	940515220003	PR5220 Ethernet Transmitter TCP/IP, 4-20 mA	\$1,614.00
158857	PR5220/01	940515220013	PR5220 Ethernet Transmitter TCP/IP, 4-20 mA with Profibus DP	\$1,942.00
158858	PR5220/04	940515220043	PR5220 Ethernet Transmitter TCP/IP, 4-20 mA with DeviceNet	\$1,942.00
158859	PR5220/06	940515220063	PR5220 Ethernet Transmitter TCP/IP, 4-20 mA with ProfiNet	\$1,942.00
158891	PR5220/07	940515220073	PR5220 Ethernet Transmitter TCP/IP, 4-20 mA with EtherNet IP	\$1,942.00