

PTC 220 - Wayside Radio

Model # 63010

Seamless connectivity with base and locomotive radios for efficient PTC operations.



General

Frequency Range: 217.6 - 222MHz

Frequency Stability: ± 1.5 ppm over operating temperature range (+25°C reference)

Channel Spacing: 25kHz

Temperature range:

- Operating: -40°C to +70°C
- Storage: -55°C to + 85°C

Humidity: Operating: 0% to 95%; non-condensing Test per S-5702, clause 3.2.3.2

DC Input Voltage Range: 10.9V - 15.5V

DC Current Drain(13.6VDC input):

- Transmit: 10A max into into 50Ω load
- 7.5A typical
- Receiver: 1A max while receiving

DC Power Connector: Wago p/n 231-833/001-000

Size 15.5 in. Width: 9.5 in Depth 2.0 in

Weight: 6.9 lbs (3.1 kg)

Antenna Connector: Type N female

External interface: Ethernet (2) 10/100

- Data Network port - Type RJ-45
- Maintenance port - Type RJ-45
- Configuration Interface Module: SD Card

Display: Activity/Diagnostic LEDs on Front Panel



Transmitter

RF Power Output: 25W PEP:

- Adjustable 7.5W to 25W PEP

Output Impedance: 50Ω**Operating VSWR:** <3:1**Modulation Waveforms:**

- 16 kbps $\pi/4$ DQPSK: 80 dB (linear)

Occupied Bandwidth: Meets 47CFR90.210(f);
Five aggregated channels**Conducted Spurious Emissions:** -25dBm max**Max Duty Cycle Rating:** 10%**Emission Designators:** 16 kbps $\pi/4$ DQPSK - 8K90DXW**Regulatory Approvals:** FCC IF BIB 63010

Receiver

Maximum Usable Sensitivity, Static BER>10-4:

- 16 kbps $\pi/4$ DQPSK: -111dBm
- 32 kbps $\pi/4$ DQPSK: -108dBm

Adjacent Channel Sensitivity: 70dB @ 25kHz offset**Spurious Response Rejection:** 65dB**Intermodulation Response Rejection:** 65dB**High Input Level (-7dBm):** BER>10-4**Blocking - 1MHz Offset:**

- 16 kbps $\pi/4$ DQPSK: 80dBm
- 32 kbps $\pi/4$ DQPSK: 77dBm

Number of Simultaneous Receiver Channels: 2**Diversity Support:** No

About Meteorcomm:

Meteorcomm develops train control products as well as radio, messaging and systems management solutions that enable PTC operations and cost effectiveness.

Our technology solutions are currently being used by Class-I railroads, short-line railroads, commuter-line railroads, system integrators and PTC hosting providers. Our company partners with world-class manufacturers, system integrators and software developers to enhance, support, and deploy our solutions.



Contact us to learn more!

We'll be happy to provide information about PTC 220 Wayside Radio as well as our Base and Locomotive radios.



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