

XTR-2020 Square / Spike Pulser Receiver



Pulser

- Amplitude: 400volts into 50Ω.
- Square Pulse Width: Adjustable from 20 to 750ns. (20 to 1500ns for Low Frequency option)
- Spike Pulse Energy: Selectable in 15 steps.
- Pulse Repetition Rate: 0.2Hz to 20kHz. (0.2Hz to 50Hz for Low Frequency option)
- Pulse Rise Time: Less than 15ns.
- Damping: Selectable, 20, 21, 23, 26, 27, 29, 31, 33, 35, 37, 40, 43, 46, 50, 55, 59, 65, 67, 75, 83, 100, 143, 200, 500Ω. (500Ω fixed for Low Frequency option)
- Pulse Voltage: Selectable, 100V, 150V, 200V, 250V, 300V, 350V, 400V, 450V.
- Pulse Mode: User-selectable pulse-echo or through transmission.
- Sync Output: +5V TTL and CMOS compatible.
- External Trigger Input: Triggers at positive edge of 3.3V, or 5V square wave.

Receiver (Disabled when Low Frequency module is used)

- Tuned Frequencies: 1, 2.25, 5, 10, 15, 20, 25, 30, 50MHz.
- Wideband band width: 1-25, 3-25, 5-50, 1-50MHz.
- Gain: Adjustable -30 to +80dB in 0.5dB steps.
- High Pass Filter: 500kHz, 1MHz, 2.25MHz, 5MHz, 7.5MHz, 12.5MHz, 17.5MHz.
- Low Pass Filter: 2MHz, 5MHz, 10MHz, 15MHz, 25MHz, 35MHz, 50MHz, 70MHz.
- Display Output: Switchable RF, Detected RF
- Detected RF Presentation: +, -, +/-, Hi Res +/-.
- Output Impedance: 50Ω.
- Output Voltage: ±1V into 50Ω.

Data Acquisition Unit (Disabled when Low Frequency module is used)

- Resolution: 8 bit.
- Bandwidth: 50MHz maximum.
- Maximum Sampling Rate: 200 MS/s.
- Onboard Sampling Memory: 2,000 Samples.

Computer Interface (Disabled when Low Frequency module is used)

- Controlled from PC via RS-232 or optional wireless connection.
- DAQ data is sent to PC via RS-232 or optional wireless connection.
- O'scope program measures time and amplitude of waveform.

Additional Low Frequency receiver module

- Tuned Frequencies: 2, 4, 8, 16, 32, 64, 128kHz and Broadband.
- Gain: Adjustable 0 to +50dB in 0.5dB steps.
- ADC Resolution: 8 bit.
- ADC sampling rate: 200 MS/s.
- Controlled from PC via RS-232 or optional wireless connection.
- DAQ data is sent to PC via RS-232 or optional wireless connection.

XTR-2020-MV (Medium Voltage)

- Pulse Voltage: Selectable, 4.5V, 6V, 8V, 10V, 15V, 30V, 60V, 100V

XTR-2020-LV (Low Voltage)

- Pulse Voltage: Selectable, 1.0V, 1.5V, 2.0V, 2.5V, 3.0V, 3.5V, 4.0V, 4.5V

Miscellaneous

- Power: AC85-265VAC, 50-60Hz, 40W, Free Voltage.
- Dimensions: H 132.5mm x W 250mm x D 300mm.
- Weight: 6kg.
- Operating Temperature: -10°C to +50°C.



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