

PCUS 11 (G/H-Series)

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| Channels: | 1 Transmitter, 1 Receiver |
| Frequency Range: | 0.5 - 20 MHz (-3dB), 20kHz to 27MHz with optional filter modules |
| Filters: | 4 narrow band filters, 1MHz (0.5 to 2.0MHz) 2MHz (1.0 to 4.0 MHz), 4.5MHz (2.25 to 9.0 MHz), 10.0MHz (5.0 to 20.0 MHz); other filters available upon request |
| Amplifier Range: | 0dB to 90dB including DAC, adjustable in 0.1 dB increments |
| Damping: | 20dB, adjustable in 0.1 dB increments |
| Dynamic Range: | 110dB |
| Electronic DAC: | 80dB range, adjustable in 0.1 dB increments, maximum of 256 editable, equidistant points |
| Gates: | 4 gates, 1 signal-start (trigger) gate |
| Trigger In: | TTL, high-active/low-active, Pulse width >100ns, Lemo-00 external, MCX internal |
| Trigger Out: | TTL, high-active/low-active, Pulse width 200ns, Lemo-00 external, MCX internal |
| Clock In/Out: | LVTTTL, 80MHz, MMCX internal |
| Impedance: | 50Ω, 300Ω selectable |
| Transmitter Pulse: | Square pulse, negative |
| Pulser: | -300V or -220V (50Ω), -550V or -350V (300Ω) |
| Pulse Rise time: | <9.5ns (10% to 90% pulse height) |
| Pulse width: | 63ns to 480ns, adjustable |
| Pulse Repetition Rate: | 20Hz to 5kHz (max.) |
| Sampling Rate: | 160 (virtual), 80, 40, 20, 10 MS/s, selectable, 8bit AD/C |
| Data Memory: | 64k samples |
| Averaging: | Real-time 2, 4, 8, 16, 32, 64, and 128 samples selectable |
| A-scan Processor: | RF, positive/negative half-wave, full-wave, and summation of up to 256 samples |
| Data Output Format: | 8bit or 16bit |
| Sweep Range, 80 MS/s: | max. 4,915mm (193.5"), longitudinal mode in steel, pitch-catch max. 2,457mm (96.7"), longitudinal mode in steel, pulse-echo |
| Sweep Range, 10 MS/s: | max. 39,300mm (1,547.2"), longitudinal mode in steel, pitch-catch max. 19,600mm (771.6"), longitudinal mode in steel, pulse-echo |
| Parameter Sets: | 8 maximum, automatic cycle sequence available |
| Power Requirements: | 5V (±0.5) 13W typical 16W max., 4.3W in power saving mode |
| Interface: | PCI-Bus V2.1, I/O or Master DMA 32 bit |
| Dimension: | 105mm x 312mm (full size) PCI board; 400g (0.9lbs.) |
| Connectors: | Lemo 00 for pulse-echo, transmit and receive; Lemo-00 external for Trigger In/Out and MCX internal receptacles (on board) |

