

## PCUS 11

Channels:	1 Transmitter, 1 Receiver
Frequency Range:	0.5 - 20 MHz (-3dB), 20kHz to 27MHz with optional plug-in 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, ranging from 20kHz to 27MHz 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:	110 dB
Electronic DAC:	40 dB range, adjustable in 0.1 dB increments, maximum of 256 editable, equidistant points
Impedance:	50Ω, 300Ω selectable
Transmitter Pulse:	Square pulse, negative
Pulser:	-300V or -200V (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 4 kHz (max.)
Sampling Rate:	160, 80, 40, 20, 10 MS/s, selectable, 10bit resolution
Data Memory:	64k sample
Averaging:	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. 2457mm, longitudinal mode in steel, pulse-echo max. 4915mm, longitudinal mode in steel, pitch-catch
Sweep Range, 10 MS/s:	max. 19,600mm, longitudinal mode in steel, pulse-echo max. 39,300mm, longitudinal mode in steel, pitch-catch
Power Requirements:	5V (±0.5), 12W typical, 15W maximum, 3.7W in power saving mode
Interface:	PCI-Bus, I/O or Master DMA, 32 bit
Dimension:	105mm x 312mm (full size) PCI board
Connectors:	Lemo 00 for pulse-echo, transmit and receive; MCX receptacles on board for trigger-in and trigger-out

