



## PERFORMANCE DATA, PCUS® *pro* DEVICE FAMILY

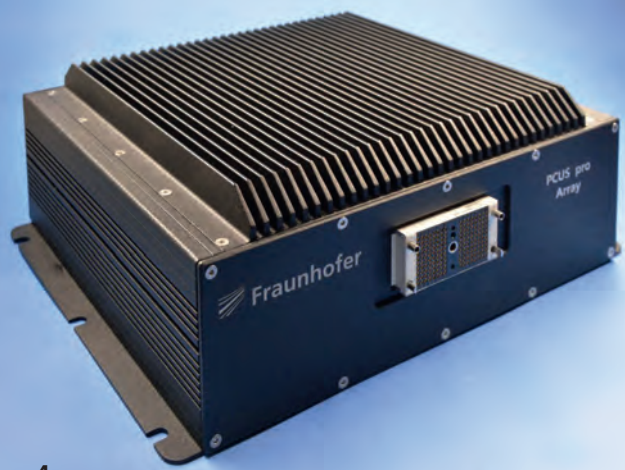
	PCUS® <i>pro</i> Single	PCUS® <i>pro</i> HF	PCUS® <i>pro</i> Multi	PCUS® <i>pro</i> Array	PCUS® <i>pro</i> Array II
<b>Pulsers</b>					
Number of pulsers	1	1	2...16	64	128
Pulse voltage / step	+50 to +250 V / 1 V	-50 to -180 V / 1 V	-50 to -300 V / 1V	-20 to -180 V / 1 V	±10...±80 V / 1 V
Pulse delay / step	0 to 40 µs / 5 ns	0 to 10 µs / 8 ns	0 to 51 µs / 6.25 ns	0 to 51 µs / 3.125 ns	0 to 131 µs / 2.0 ns
Pulse width / step	0 to 500 ns / 2.5 ns	0 to 50 ns / 1 ns	0 to 500 ns / 3.125 ns	0 to 500 ns / 3.125 ns	0 to 500 ns / 2.0 ns
Pulse repetition frequency	Up to 20 kHz	Up to 20 kHz	Up to 2 kHz	Up to 2 kHz	Up to 15 kHz
<b>Signal path</b>					
ADC sample rate	100 MS/s max.	500 MS/s	80 MS/s max.	80 MS/s max.	125 MS/s max.
ADC sample width	14 bit	12 bit	14 bit	14 bit	14 bit
Rectification	Raw / full / positive / negative				
A scan compression	Up to 256:1	-	Up to 256:1	Up to 256:1	Up to 256:1
Gates	One interface gate + four hardware measurement gates				
Digital filter	-	-	-	-	Yes
Recording length	65535 samples	65520 samples	65535 samples	65535 samples	65535 samples
Probe delay / step	0 to 655 µs / 10 ns	0 to 524 µs / 8 ns	0 to 819 µs / 12.5 ns	0 to 819 µs / 12.5 ns	0 to 524 µs / 8.0 ns
Receiver delay / step	0 to 655 µs / 10 ns	0 to 131 µs / 2 ns	0 to 819 µs / 12.5 ns	0 to 819 µs / 12.5 ns	0 to 524 µs / 8.0 ns
<b>Time gain correction</b>					
Dynamic range / step	80 dB / 0.1 dB	-	80 dB / 0.1 dB	80 dB / 0.1 dB	80 dB / 0.1 dB
Slope	40 dB/µs	-	40 dB/µs	40 dB/µs	40 dB/µs
TGC curves	16	-	16	64	128
Points per curve	256	-	256	64	64
<b>Mechanical</b>					
Dimensions	120 x 100 x 36 mm <sup>3</sup>	190 x 150 x 43 mm <sup>3</sup>	190 x 150 x 65 mm <sup>3</sup>	190 x 190 x 65 mm <sup>3</sup>	272 x 222 x 90 mm <sup>3</sup>
Weight	480 g	940 g	1.7 kg	1.9 kg	5.2 kg

1 PCUS® *pro* Single.

2 PCUS® *pro* Multi.



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	PCUS <sup>®</sup> pro Single	PCUS <sup>®</sup> pro HF	PCUS <sup>®</sup> pro Multi	PCUS <sup>®</sup> pro Array	PCUS <sup>®</sup> pro Array II
<b>Receiver</b>					
Number of receivers	1	1	2 to 16	16	128
Input multiplexer	-	-	-	4:1	-
Dual element mode	Yes	Yes	Yes	No	No
Receiver bandwidth	500 kHz to 30 MHz (-3 dB)	5 to 150 MHz (-3 dB)	500 kHz to 30 MHz (-3 dB)	500 kHz to 30 MHz (-3 dB)	500 kHz to 30 MHz (-3 dB)
Analog band filters*	4	4	2	2	4
Maximum input voltage	10 V p-p	2 V p-p	10 V p-p	10 V p-p	2V p-p
Amplification / step	0 to 80 dB / 0.1 dB	0 to 50 dB / 0.1 dB	0 to 80 dB / 0.1 dB	0 to 80 dB / 0.1 dB	0 to 80 dB / 0.1 dB
Preamplifier	40 dB	20 dB	40 dB	40 dB	20 dB
<b>Connectors</b>					
Probe connector	LEMO 00	SMA	LEMO 00	IPex or Hypertec	IPex or Hypertec
PC interface type	USB 2.0 high speed	USB 3.0 super speed	USB 2.0 high speed	USB 2.0 high speed	USB 3.0 super speed
PC interface connector	USB 2.0 B type	USB 3.0 B type	Bulgin mini B type PX0443	Bulgin mini B type PX0443	USB 3.0 B type
Trigger in	MCX, 5 V	DSUB, 5 V	LEMO 00, 5 V	LEMO 00, 5 V	DSUB, 5 V
Trigger out	MCX, 5 V	DSUB, 5 V	LEMO 00, 5 V	LEMO 00, 5 V	DSUB, 5 V
Scanner interface	External (option)	Integrated	Integrated	Integrated	Integrated
Scanner interface axes	4	4	4	4	4
Aux analog input	-	2 channels, 0 to 5 V	-	-	2 channels, 0 to 5 V
Waveform analog out	-	-	-	-	125 MS/s
Self-test	-	-	-	-	Yes
<b>Power supply</b>					
	USB bus powered or 12 V DC / 0.5 A	24 V DC / 0.3 A	12 V DC / 4 A Bulgin PX0412 / 2S	12 V DC / 4 A Bulgin PX0412 / 2S	24 V DC / 8 A PX0412 / 3P

\* Filter frequencies as per customer's request