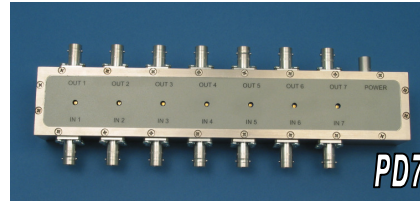
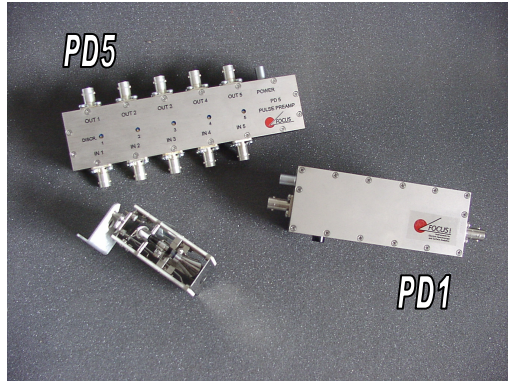
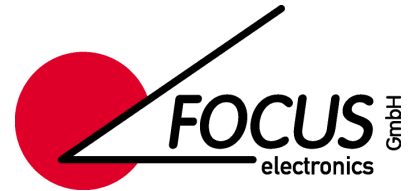


## Product Specification Sheet

### FOCUS pulse preamplifiers / discriminators

#### Types PD1 , PD5 & PD7



	PD1	PD5/PD7
Number of independent counting channels	one	five or seven (other on request)
Input Connector	1 BNC socket	5/7 BNC sockets
Input impedance	50Ω	
Input sensitivity	150μV	
Max. repetition rate	50 MHz	
Pulse pair resolution	20 nsec	
Output	TTL pulses, 1 BNC socket	TTL pulses, 5/7 BNC sockets
Output noise	1,7V <sub>RMS</sub>	1,8V <sub>RMS</sub>
Preamp gain	40 dB	60 dB
Input noise level	5 μV	< 5 μV
Delay signal input to comparator out	8,7 nsec	5,9 nsec
Min. output pulse width	7,6 nsec (9 nsec at 20db input)	11 nsec (11,5 nsec at 40db input)
Overload sustainability	square wave: non measurable saw tooth: non measurable	
Output connector	1 BNC socket	5/7 BNC sockets
Output impedance	50Ω	
Operating voltage	+-15V	
Power connector	3-pin LEMO	
Discriminator threshold	Trim pot adjustable threshold level monitor output (telephone socket)	Trim pot adjustable separately for each channel
Hardware	Discrete circuits with integrated amplifiers	SMD circuits
Housing	Full metal HF-housing (rigid nickel coated aluminium body)	Full metal HF-housing (rigid nickel coated aluminium body)
Weight	ca. 300g	ca.500g
Outer dimensions	27x51x137mm	33x48x201mm
Cabling	one 5m power cable and one short (20cm) input cable	one 5m power cable and 5 short (20cm) BNC input cables

Specifications measured with: Impuls generator TR-0307 (100MHz); Oscilloscope HP 54602B; Tune cord PRL-T5027

- optimised to run with all pulse counting CEM/MCP detectors of the FOCUS product range
- and/or foreign devices with CEM or MCP detectors
- +-15V power supply included in delivery

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