

Test Equipment Solutions Datasheet

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as spectrum analyzers, signal generators, oscilloscopes, power meters, logic analysers etc from all the major suppliers such as Agilent, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. As such, we fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 1 year warranty. Our staff have extensive backgrounds in T&M, totalling over 150 years of combined experience, which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, presenting flexible technical + commercial solutions and supplying a loan unit during warranty repair, if available.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based at Aldermaston in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our 40GHz in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

Test Equipment Solutions Ltd
Unit 3 Zodiac House
Calleva Park
Aldermaston
Berkshire
RG7 8HN

T: 01183 800 800
F: 01183 800 804

Email: info@TestEquipmentHQ.com
Web: www.TestEquipmentHQ.com



PM 5786 Pulse Generator

Time parameters

Pulse repetition period	8 ns...1s (1 Hz...125MHz).
Pulse delay	8 ns...100ms.
Pulse duration	3.5 ns...100ms or fixed square wave
Jitter	<0.1% of setting \pm 50ps.

Main pulse characteristics

Outputs	2 channels, A and B.
Transition times at $Z_L = 50 \Omega$	2ns... >100ms, continuously variable, corresponding to 10% and 90% of pulse amplitude. For ECL testing the minimum transition time is 1.4ns corresponding to 20% and 80% of pulse amplitude.
Pulse amplitude	0.2V... 5V (at $Z_L = 50 \Omega$), double amplitude at open output, within the range \pm 6V.
DC offset	-2.5V...+2.5V (at $Z_L = 50\Omega$), \pm 5V at open output.
Max output voltage	Pulse amplitude plus DC offset is max \pm 6V. Maximum 10V open output amplitude can be achieved provided the signal is in the range \pm 6V.

Waveform aberrations (at $Z_L = 50 \Omega$),	Less than 5%+10mV; less than 10% for transition times <5ns.
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Source resistance	50 $\Omega \pm$ 5%.
Source impedance	50 $\Omega \pm$ 10%.
Output protection	Against short- or open circuit and transients
Pulse modes	Single pulse (delay-able) Double pulse Square wave 50% \pm 1% (1Hz... 1MHz); 50% \pm 10% (1MHz... 125MHz) Normal or complementary, switchable.

Output modes

Bipolar	Simultaneously positive and negative polarity.
Pos	Positive polarity, normal and complementary.
Neg	Negative polarity, normal and complementary.

External operating modes

TRIGG	Externally triggered pulse repetition DC... 125MHz or manual single shot.
GATE	Synchronous gating. External input signal starts and stops the generator.
BURST	Internally generated burst with digital switch selection of number of pulses 0...9999, started by external input signal or manual control.
EXT DUR	External duration gives pulses with same duration and repetition rate as external input signal, all other pulse parameters are set via the generator.

External input

Range	DC... 125MHz, minimum pulse duration 3.5ns
Input voltage range	0.5...15V pp
Coupling	DC
Input impedance	1 M Ω //25pF
Trigger level	-3V...+3V
Trigger slope	+ and -
Trigger indicator	Tri-state LED indicator for correct trigger level setting
	Max input voltage without damage 260Vrms at < 440Hz, declining to 15Vpp at 125MHz.

Internal clock output

	Main output pulse is delay-able with respect to internal clock output, which therefore can be used as pre-trigger.
Amplitude	+2.5V into 50 Ω .
Output impedance	50 Ω (typical).
Transition time	Approximately 1 ns.
Pulse duration	Square wave, 50% \pm 1% (1 Hz ... 1 MHz), 50% \pm 10% (1 MHz ... 125 MHz).
Output protection	Against short- and open circuit and transients.
Time setting error indicators	Warning for erroneous settings of excessive times for pulse delay, pulse duration, leading and trailing transition times, indicated with 4 LED's.

PM 5786 Pulse Generator

General Specification

Power requirements

Line	100V, 120V, 220V and 240Vrms $\pm 10\%$. 120VA, 50...60Hz.
Safety	According to CE-regulation 73/23 EN61010-1 CAT II, Pollution Degree 2 and CSA 556B.
Electromagnetic Compatibility (EMC)	According to CE-regulation 89/336 Emission according to EN 550081-1, EN 55022 Class B, EN 60555 Immunity according to EN 50082-1, inclusive IEC 801-2,-3,-4-5

Environmental conditions

Temperature	
- Operating	0°C...+50°C.
- Storage	-40°C...+70°C.
Humidity	
- Operating	10...90% RH, non-condensing.
- Storage	5...95% RH.
Altitude Barometric pressure	
- Operating	5000m (15000ft)-53.3kN/m2.
- Storage	15000m (50000ft)-15.2kN/m2.

Dimensions and weight

- Height	145mm (5.7in)
- Width	300mm (11.8in)
- Depth	470mm (18.5in)
- Weight Net	9.5kg (21Lb)
- Weight Shipping	11.5kg (25Lb)
Included with instr.	Manual, power cord

TEST EQUIPMENT SOLUTIONS
Quality Second User Test Equipment for Sale or Rental
info@TestEquipmentHQ.com : www.TestEquipmentHQ.com

Ordering

Ordering Information

Models

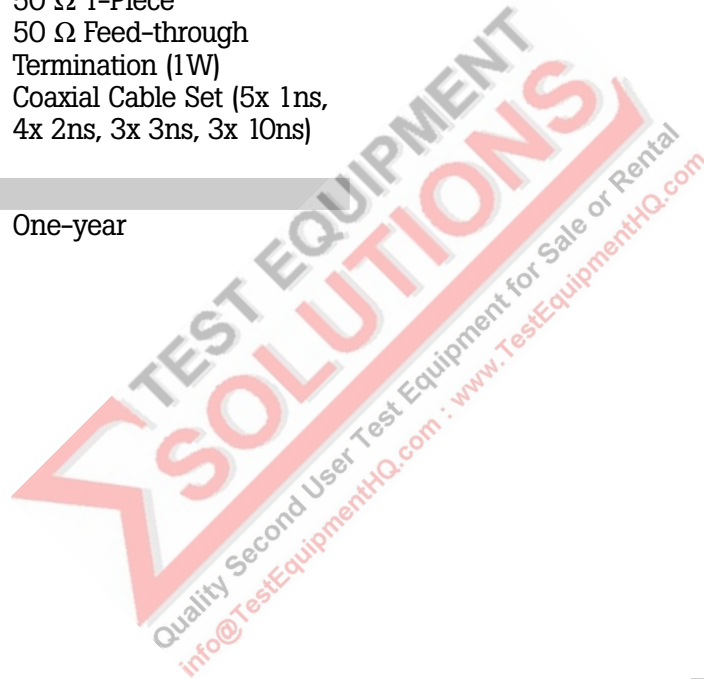
PM 5712/08	Pulse Generator
PM 5715/11	Pulse Generator
PM 5786	2 ns Pulse Generator, excluding pre-set burst unit
PM 5786B	2 ns Pulse Generator, including pre-set burst unit

Accessories

PM 9581/01	50 Ω Feed-through termination (3W)
PM 9584/02	50 Ω T-Piece
PM 9585/01	50 Ω Feed-through Termination (1W)
PM 9588/01	Coaxial Cable Set (5x 1ns, 4x 2ns, 3x 3ns, 3x 10ns)

Service and Support

Warranty	One-year
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Fluke Corporation

P.O. Box 9090, Everett, WA 98206

Fluke Europe B.V.

P.O. Box 1186,
5602 BD Eindhoven,
The Netherlands

For more information call:

In the U.S.A.: (800) 443-5853

or Fax: (425) 356-5116

In Europe/M-East:

+31 (0)40 2 678 200

or Fax: +31 (0)40 2 678 222

In Canada: (905) 890-7600

or Fax: (905) 890-6866

From other countries:

+1(425) 356-5500

or Fax: +1 (425) 356-5116

Web access: <http://www.fluke.com>