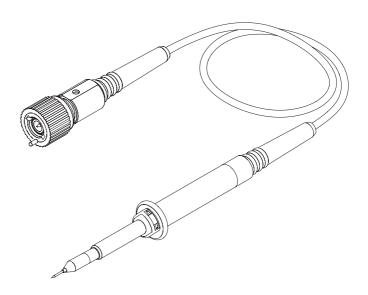


PHV 1000-RO

High impedance passive probe

Features:

- CeramCoreTM hybrid probe
- Modular construction
- Coaxial design
- Interchangeable spring contact tip
- Certificate of calibration available on request
- Read-out BNC connector



The PHV 1000-RO is a 400 MHz, standard sized, 100:1 passive probe designed for instruments having 1 $M\Omega$ input resistance. This probe is recommended for probing applications in service and development environments and is adjustable for low and high frequencies. It is also recommended for transient measurements up to 6 kV such as EMC testing applications. The probe is rated with 1000 V CAT II maximum input voltage and complies with latest safety standards. The DC fine adjustment enables trimming for preferred voltage ranges. Like every PMK passive probe the PHV 1000-RO features CeramCoreTM technology. The probe's entire core is made of a high quality ceramic hybrid. Pure coaxial design and laser trimmed resistors ensure highest signal fidelity along the signal path offering high bandwidth and fast risetimes for accurate impulse measurements. All passive probes are equipped with PMKs signature spring loaded, needle sharp tips to support precise and safe measurements minimizing the risk of slipping. Various types of tips are available. Besides the spring contact tip there is also a solid tip available at the users choice. Probe tips are interchangeable and can be replaced easily. Basic probe accessories and replacement tips are provided within the scope of delivery or can be purchased separately. The case option includes additional accessories listed in this datasheet. The probes mechanical construction is modular and therefore spare probe leads are available. See this datasheet and corresponding documents for further details.

Thank you for your interest in our product!



Datasheet

This datasheet supersedes all previously published material. Specifications that are defined typical are not guaranteed and are published as general information to the user. The instrument should have warmed up for at least 20 minutes and the environmental conditions must not exceed the specified limits of the probe. Note that specifications are subject to change without notice.

Electrical specifications

Attenuation ratio ⁽¹⁾	100:1	± 2 % at DC
Voltage coefficient	0.0025 % / V	(typical)
System bandwidth	400 MHz	(-3 dB)
System risetime	900 ps	(10 % – 90 %)
		(typical)

Maximum rated input voltage (2)

Measurement category I:

Measurement category II:

Pollution Degree

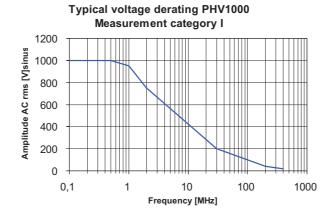
1000 V rms

4000 V transient overvoltage

1000 V rms CAT II

2

Voltage derating





Note that the max. input voltage rating of the probe decreases as the frequency of the applied signal increases.

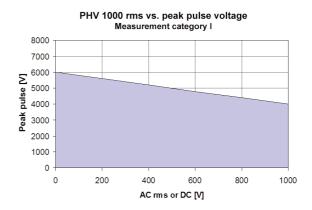
- (1) Connect to oscilloscope with an input impedance of 1 M Ω ± 1 %.
- (2) As defined in IEC 61010-031.



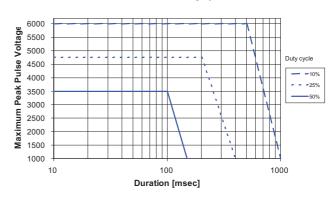
Datasheet

Maximum pulse ratings

For pulse measurements make sure to comply with the ratings as shown on this page.



Maximum Pulse Derating PHV1000 Measurement Category I





Datasheet

Electrical Characteristics

Input resistance (system)	50 MΩ	± 1 %
Input capacitance (system)	7.5 pF	(typical)
Compensation range	10 pF – 50 pF	(typical)
Input coupling of the measuring instrument	1 MΩ AC / DC	

Input impedance

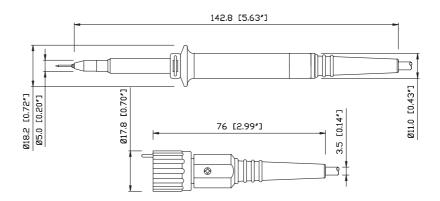
Typical input impedance PHV1000 100000,00 10000,00 1000,00 1000,00 1000,00 1,00 1,00 0,10 0,01 1E-05 0,0001 0,001 0,01 0,1 1 10 100 1000 Frequency [MHz]



Note that the input impedance of the probe decreases as the frequency of the applied signal increases.

Mechanical characteristics

Weight (probe only) 67 g
Cable length 2 m
Probe tip diameter 5 mm



PHV 1000-RO



Datasheet

Environmental specifications

Altitude operating up to 2000 m

non-operating up to 15000 m operating 0 °C to +50 °C

Temperature range operating 0 °C to +50 °C

non-operating -40 °C to +71 °C

Maximum relative humidity operating 80 % relative humidity for temperatures

up to +31 °C, decreasing linearly to

40 % at +50 °C

Declaration of conformity

The manufacturer declares the conformity of his products with the actual required safety standards in accordance with the Low Voltage Directive (LVD) 73/23/EEC and amendment 93/68/EEC:

CEI/IEC 61010-031:2002

Safety requirements for electrical equipment for measurement, control and laboratory use.

Part 031:

Safety requirements for hand-held probe assemblies for electrical measurement and test.

WEEE/ RoHS directives

PMK electronic products are classified within the WEEE/ RoHS* category list as monitoring and control equipment (category 9). Category 9 products are exempt from the restrictions under the scope of the RoHS directive.

Your help and efforts are required to protect and keep clean our environment. Therefore return any electronic product at the end of its life either to the manufacturer or take care of separate WEEE collection and professional WEEE treatment yourself. Do not dispose as unsorted municipal wastel

* EC Directives:

WEEE Directive 2002/96/EC - Waste Electrical and Electronic Equipment

RoHS Directive 2002/95/EC – Restriction of the use of certain Hazardous Substances

in Electrical and Electronic Equipment



PHV 1000-RO

Datasheet

Scope of delivery PHV 1000-RO Order-No. 860-622-A02

- Probe
- Ground lead 22 cm
- Instruction manual
- Insulating cap 5.0-L
- Protection cap 5.0-L

- Solid tip 0.8 mm
- Spring tip 0.8 mm
- Sprung hook 5.0-L
- Adjustment tool T
- Protection cap 5.0-L

Safety information

To avoid personal injury and to prevent fire or damage to this product or products connected to it, review and comply with the safety informations stated in the manual before using this product. Be aware that if you use this probe assembly in a manner not specified the protection this product provides may be impaired.

Only qualified personnel should use this probe assembly.

Manufacturer

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