

High-voltage measurement equipment

HVM 2015



The high-voltage measurement instruments HVM 2015 consist of a measuring amplifier for universal use with a digital touch display, a built-in high-voltage divider for direct measurement up to 10 kV / optional 20 kV and an external input for an external high-voltage divider, HVT***RCR, measurement and display of voltages up to 300 kV.

The HVM 2015 is designed for measuring ac- and dc- voltages and allows in addition measurement of the peak value of lightning and switching pulse voltages.

The device features a microprocessor controlled user interface and a 5" touch screen unit for ease of use. It allows the user to set parameters and shows the results on the display. A standard USB port provides the ability to print a summary of the test parameters to a USB stick.

All HVT***RCR voltage dividers are predefined in the setup for easy use, plugging and measuring. Furthermore other external dividers can be connected by using the free style setup.

The optional software program REMOTE allows full remote control of the test HVM2015 via Ethernet light guide as well as documentation and evaluation of test results, accordingly to IEC 17025. It is equipped with an Impulse Recording Function (IRF) for recording definite impulses.

Optionally the unit can be delivered with a DKD calibration certificate.

Touch Display menus

Menu Info:

HILO TEST Information HVM

Firmware: 2.0 Update via USB stick HVM SN: see back Date: 01.01.2015 Time: 00:33

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Total Space: 234 MByte Free Space: 0 MByte Used Space: **100%**

Back to Main Menu

Menu Setup:

HILO TEST Setup HVM

Sound: ON User Setup

Scale: Clock

measurement interval: s Network

Limit min: kV

Limit max: kV Back to Main Menu

Menu Measure:

236.7 kV Setup Info

min: 235.1 mean: 236.7 max: 237.3

Mode: Input: Measure: Pol: Reset

Menu Measure full screen:

236.6 kV

min: 236.5 mean: 236.6 max: 236.8

Menu Statistic:

HILO TEST Statistic

Min: 47.61 kV ON record values

Max: 47.03 kV

Mean: 47.79 kV recorded values: 22

Save to USB

Technical specification:	HVM 2015
Microprocessor controlled touch screen	5", 800X480, 24 bit
Optical-Interface for remote control of the generator	optional
Interface for saving reports	USB
External trigger input /output	10 V at 1 k Ω
Mains power	230 V/50 Hz / 10 VA
Dimensions of desk top case W * H * D	450 * 180 * 300 mm ³
Weight	5kg
Direct high-voltage-input	10 kV \approx / 7kV \approx
External input, Ri = 1000 k Ω	100V \approx 100 %
Calibration possibility of the preamplifier	\pm 2 %
Analogue output, Ri = 5 k Ω	5 V \approx 100 % 1 mA \approx 100 %
Setting Parameter / Evaluation input voltage	
DC	Average
AC	+ / - Peak/ $\sqrt{2}$
Impulse	+ / - Peak
Impulse	Reset
Measurement input	Intern / Extern
Time interval for storing the measurement value	1s – 3600s
Resolution AD-converter	12 Bit / 4096
Digital display	Autorange
Precision AC/DC	1.0 %
Precision impuls	2.5 %
Bandwidth	0 -10 kHz
Environmental temperature	17 °C - 23 °C
Options	
Direct high-voltage-input, optional	20 kV \approx /14kV \approx
PC Remote Control SW with light guide, Ethernet Interface	