

Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)

DMI 552 DMI 553

Digital Measuring Instrument for AC and DC Leaflet





DMI 552 DMI 553







GENERALITIES

The best partner

High-voltage measurements are done by connecting a specialized voltmeter (like the DMI 552 or DMI 553) to the secondary unit of a voltage divider, or to a current-to-voltage transducer (like a shunt).

HAEEFLY, the pioneer company for high-voltage testing, has been continuously developing and upgrading application specific high-voltage test equipment. The DMI 552 & DMI 553 are the latest in the long line of Kilovoltmeters since the 1920s, offering the user the features and reliability gained from all these years of experience.

Measures according to IEC 61083-3:2020

The DMI 552 has been developed to measure, record and visualize events during dielectric and breakdown tests in high-voltage applications according to IEC 61083-3:2020. This

EXPERT'S CHOICE TO FULFILL INTERNATIONAL STANDARDS standard defines the requirements for instruments used in AC and DC high voltage applications.

HAEEFLY CaMS™

New software based on CaMS™ (HAEEFLY's Control and Measurement Studio) provides the most flexible and user-configurable environment on the market. Anything from single meter display up to complex analysis can be configured and displayed, depending on the user's experience, application or need.

Galvanic isolation

The optically decoupled front-end provides complete galvanic isolation between control room and test field. It thus affords the personnel the highest safety level and in addition minimizes ground loop, resulting in a reduced interference coupling.



PROVIDING THE HIGHEST ACCURACY IN THE MARKET

FEATURES

Designed to measure voltage and current in high voltage applications.

Measures AC voltage and currents as RMS, Peak and Peak/ $\sqrt{2}$ among others.

Measures DC voltage and currents as Mean, Peak and Ripple.

Flash detection with voltage indication.

Real time scope and frequency analysis FFT.

Additional AC/DC input channel (optional).

Computer controlled with HAEEFLY CaMS graphical user interface.

Optically decoupled from computer.

Compact, reliable, and EMC hardened design, IP50.

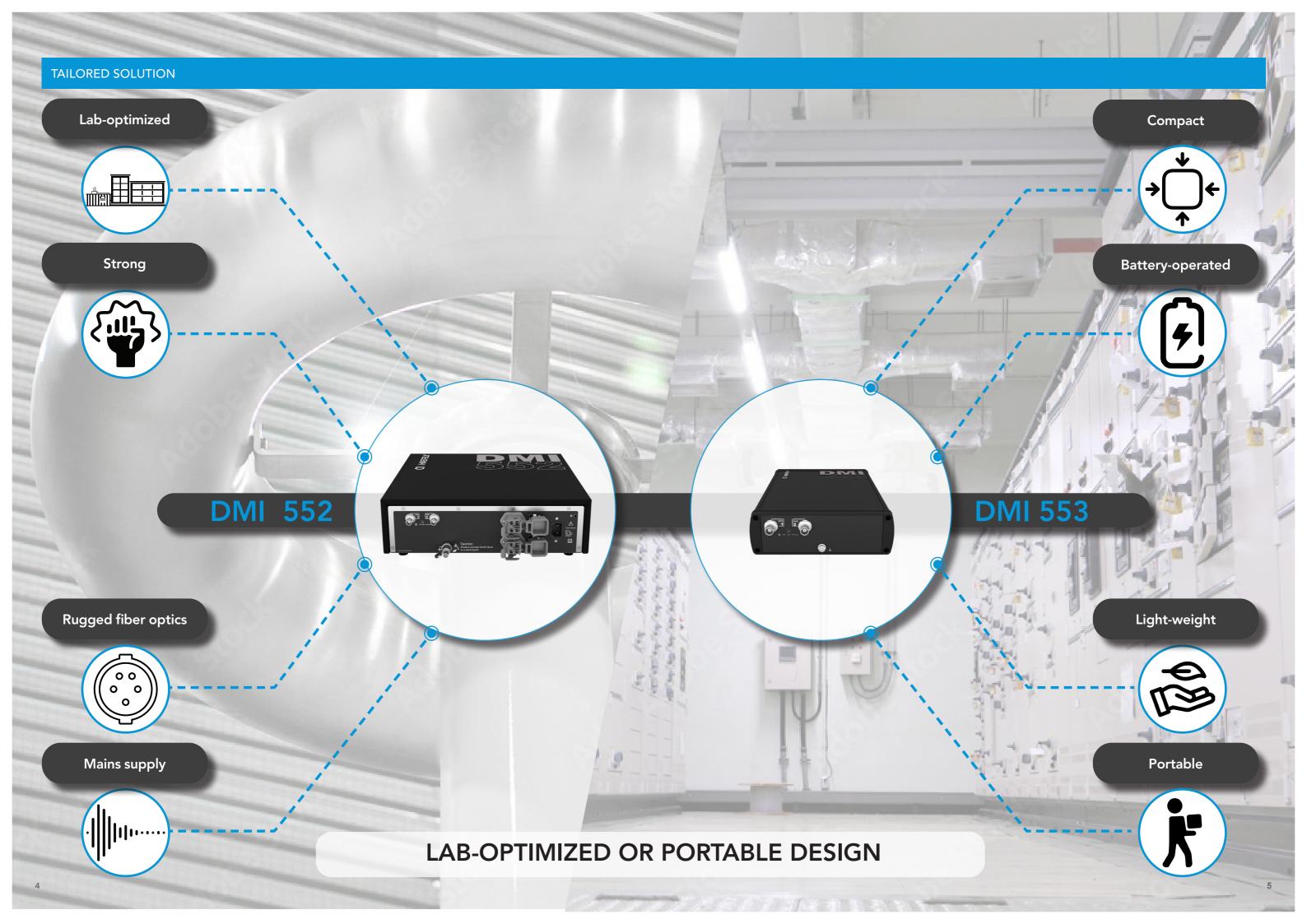


ADVANTAGES

- Approved for dielectric tests as per IEC 61083-3 as $Peak/\sqrt{2}$ is the required measured parameter.
- The Peak/√2 required value during dielectric test is measured and recorded.
- One device, 2 applications, same device can be used for AC and DC application.
- Exact voltage just before failure is recorded and held if a failure arises during the test, failure indication, voltage measured before the flash and waveshape during the flash is shown and recorded for further analysis
- Waveshape quality of the signal is continuously shown on the screen.
- Voltage and current readings in one single device values can be simultaneously shown and recorded.
- Reduced training time Modern SW makes the use of the device easier than ever. Operators can start using the device in minutes.
 - The galvanic isolation ensures the full safety of the operating personnel. With the DMI 552, there is no electrical connection between the control room and the high voltage test room.

APPLICATIONS

- High voltage laboratories
- On-site high voltage test
- Calibration laboratories



SOFTWARE FEATURES



LARGE INDICATORS Free selection between 20 values.



PEAK & HOLD Keeps the values in case of breakdown (flash).



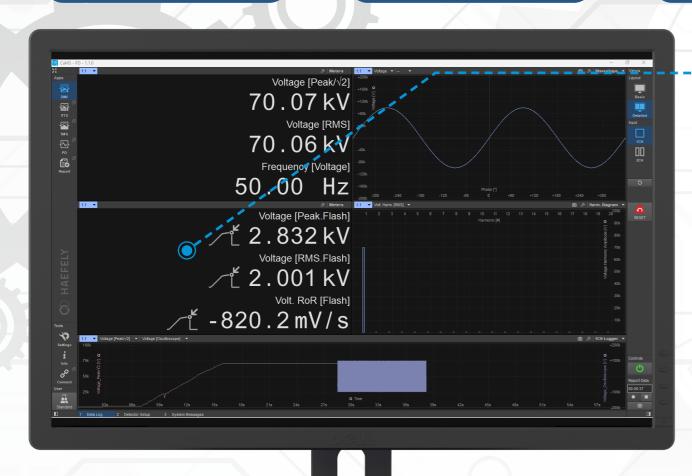
SCOPE Shows the waveshape continuously.



FFT Measures and represents harmonics content.



DATA LOGGING Collects key data during test.



Voltage [Peak/ Voltage [Peak.Flas ∕_t 31.15 kV Voltage [RMS.Flash] 7.522 V/s

BREAKDOWN Visual breakdown

indication

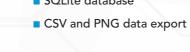
REPORTING, DATA EXPORT

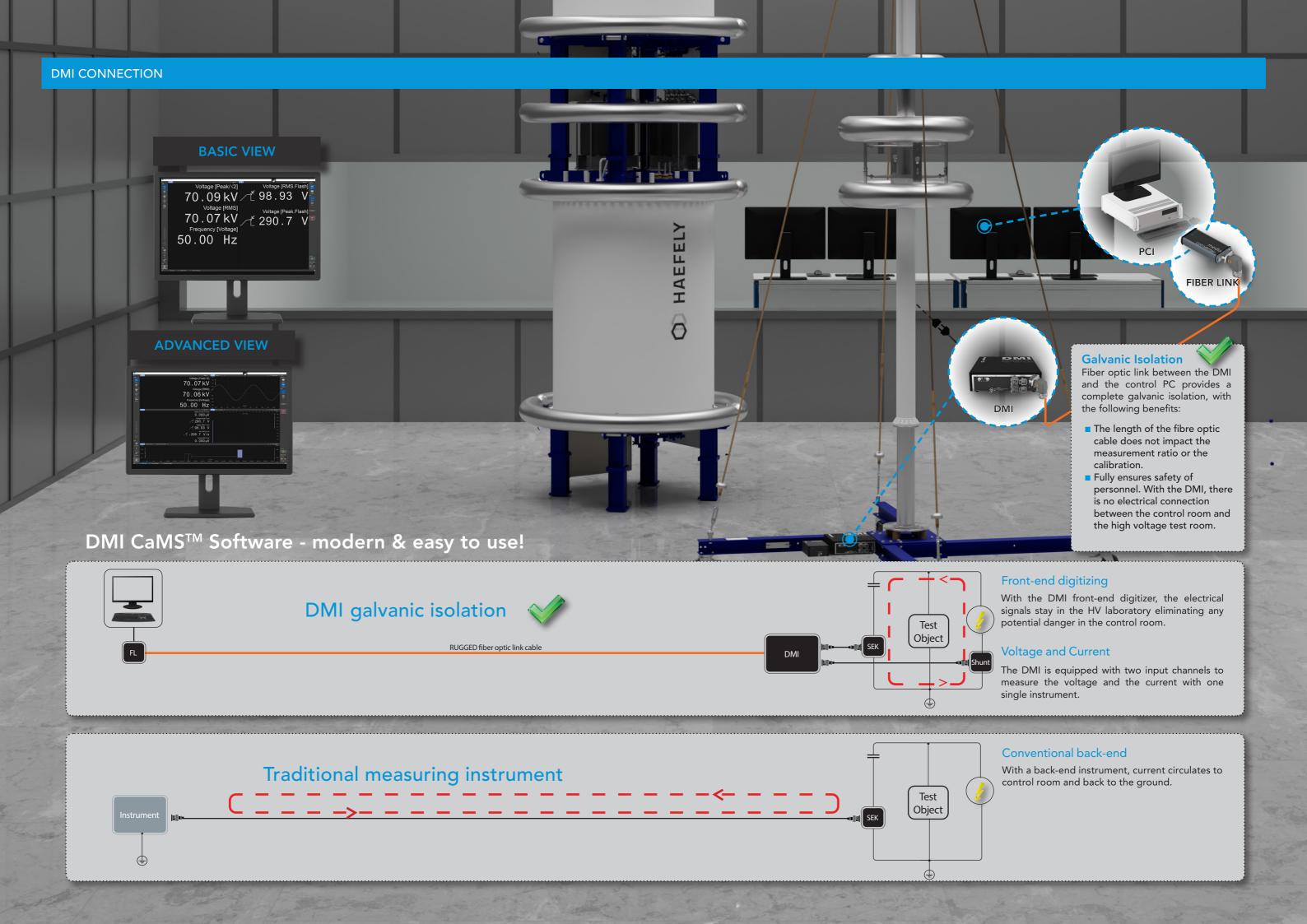
- Custom editable templates
- Print or PDF
- SQLite database





- User Roles
- Password protection
- Limited features and widget access







Standard scope of supply

Option Accessory

DMI BASIC SPECIFICATIONS

		DMI 552	DMI 553
Supply		Mains	Battery
Input Voltage (AC & DC)		0400 V _{Peak}	
Accuracy		±0.1 % of readin	g ±10 uV
	Amplitude AC	±Peak, ±Peak/√2 Peak _{AVG} , RM, RM Factor, Rate of R	_{Corr} , Mean, Peak
Meas Values Voltage /	Amplitude DC	Mean, Ripple, f _{Rip} Rise	_{ople} , Peak, Rate of
Current ⁽¹⁾	Harmonics	120 th individua Phase, Ratio), Th	
	Peak and Hold	Peak Flash, RM _{Cc} Rise Flash	Flash, Rate of

Complete technical specifications in the DMI Datasheet available at www.HAEEFLY.com



STANDARD PACKAGE

1	DMI		
	Rugged I	Digital Measuring Instrument	DMI 552
	Portable	Digital Measuring Instrument	DMI 553
	Including		
2	Software	on USB stick	
3	Fiber Op	tic - USB/Ethernet adaptor (Fib	oer Link)
4	Fiber Op	tic Cable, 20 m	
5	Battery (l	DMI 553)	
6	Transpor	t case (DMI 553)	
7	Connecti	on set (per channel)	
	Instructio	on Manual & Test Report	
8	Extended Warran	ty	
	2 years		DMI/WE2



OPTIONS

DMI 55X Options

Divil 33X Options			
9	DMI 553/BATT	Additional/spare battery pack for DMI 553 portable version	BAT
10	DMI 553/SUP	External 12 V power supply for DMI 553 portable version	sup
	DMI552/MSET-19RACK	Mounting set 19" 3HE for DMI 552 laboratory rugged version	
	DMI552/MSET-UNI	Universal mounting set for DMI 552 laboratory rugged version	

ADD ON (SOFTWARE KEY)

DMI 55X/SKCH	Software Key to enable additional input/channel (Voltage or Current)	Key code
DMI 55X/SKDO	Software Key to control up to 8 digital outputs (Flash, Trips) using Moxa ioLogik E1212 (not included).	Key code

ACCESSORIES

High Voltage Dividers

11	9231	The 9231 (25 200 kV) have been specially developed for AC high voltage measurement. Includes a double base to allocate the measuring instrument.	
11	02/11	The 9241 (25 200 kV) have been specially developed for AC & DC high voltage measurement. Includes	



Secondary Units

9241

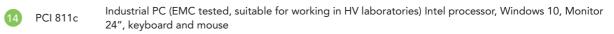
(12)	SEK 463	Secondary unit for AC & DC measurement. 140V output voltage. Other voltages on request	t.

Computers

13	LAPTOP	Laptop, Intel processor, Windows 10, 15.6" display, Full HD (1920 x 1080
13	LAPTOP	Laptop, Intel processor, Windows 10, 15.6" display, Full HD (1920 x 10

a double base to allocate the measuring instrument.







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V2211





HIGH VOLTAGE









