

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

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 userconfigurable 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.





FEATURES

Designed to measure voltage and current in high voltage applications.	\rightarrow
Measures AC voltage and currents as RMS, Peak and Peak/ $\sqrt{2}$ among others.	\rightarrow
Measures DC voltage and currents as Mean, Peak and Ripple.	\rightarrow
Flash detection with voltage indication.	\rightarrow
Real time scope and frequency analysis FFT.	\rightarrow
Additional AC/DC input channel (optional).	\rightarrow
Computer controlled with HAEEFLY CaMS graphical user interface.	\rightarrow

Optically decoupled from computer.

Compact, reliable, and EMC hardened design, IP50.



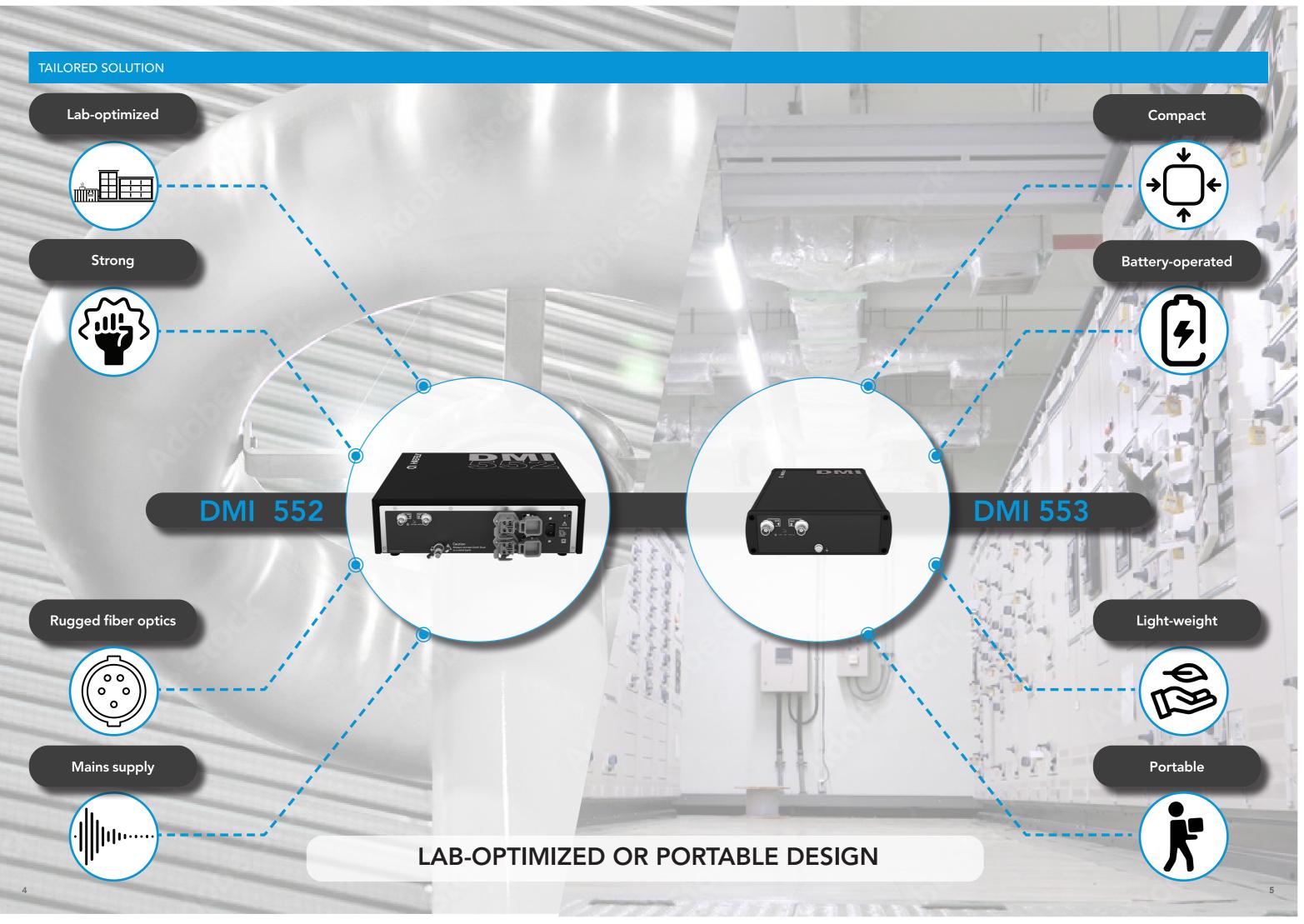
ADVANTAGES

- 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.

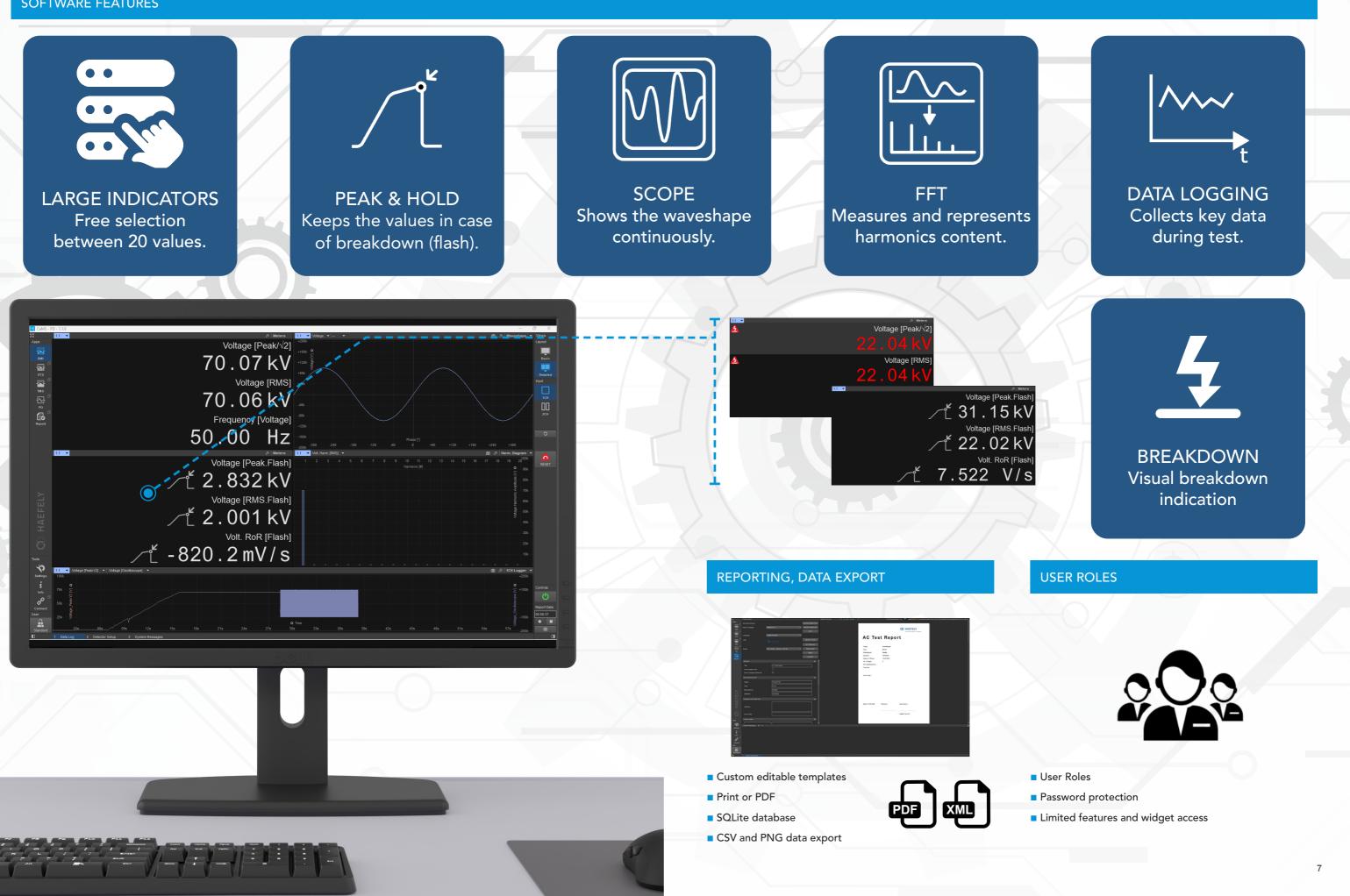
APPLICATIONS

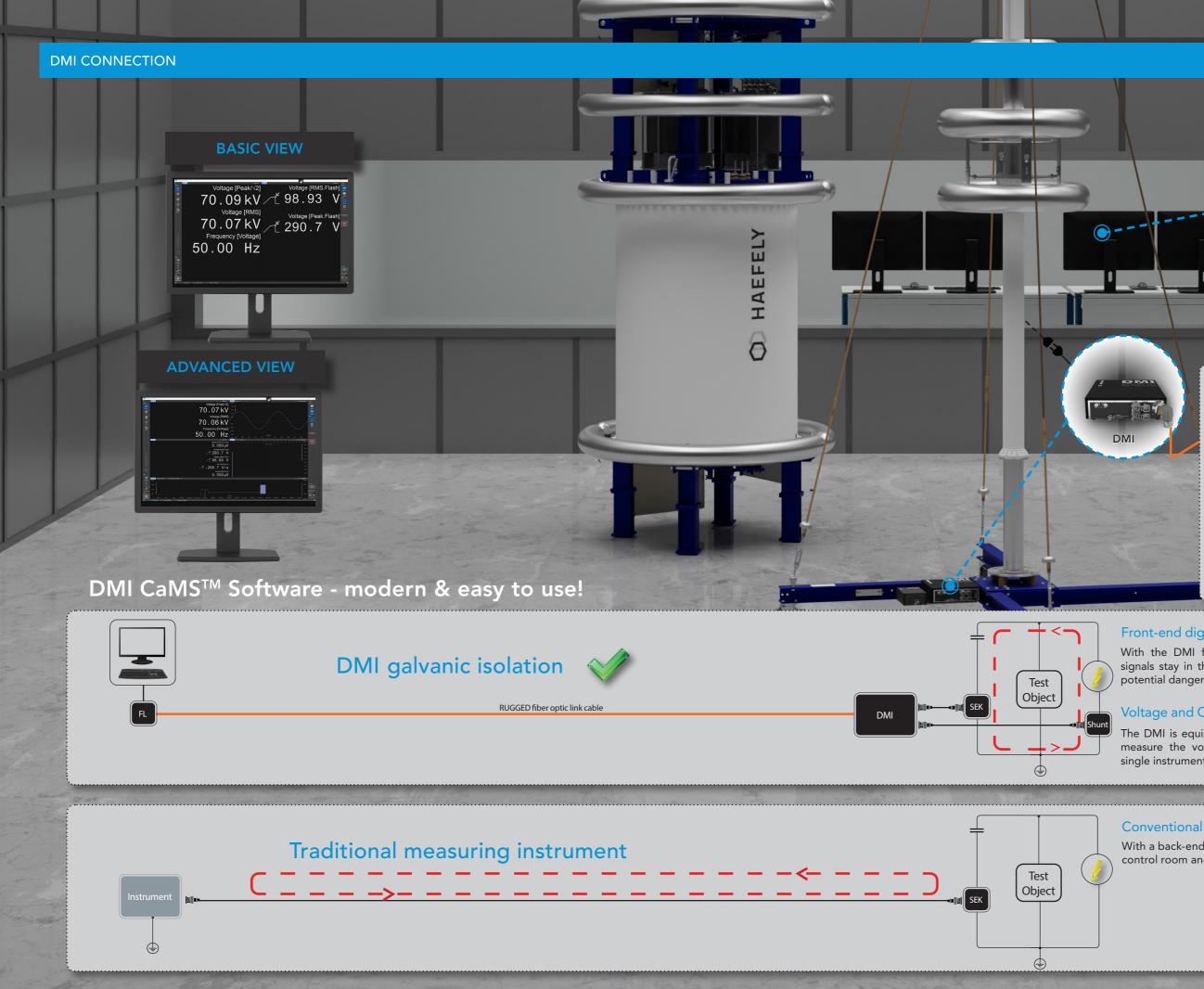
 \rightarrow

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



SOFTWARE FEATURES





Galvanic Isolation

Fiber optic link between the DMI and the control PC provides a complete galvanic isolation, with the following benefits:

FIBER LINK

- The length of the fibre optic cable does not impact the measurement ratio or the calibration.
- Fully ensures safety of personnel. With the DMI, there is no electrical connection between the control room and the high voltage test room.

Front-end digitizing

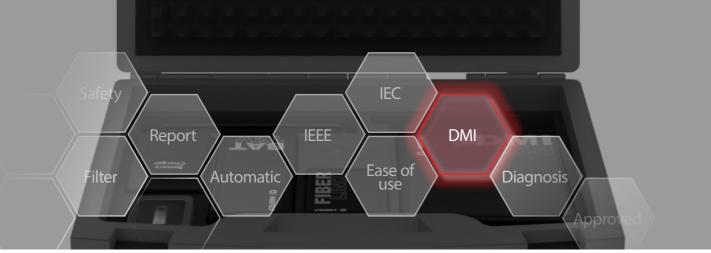
With the DMI front-end digitizer, the electrical signals stay in the HV laboratory eliminating any potential danger in the control room.

Voltage and Current

The DMI is equipped with two input channels to measure the voltage and the current with one single instrument.

Conventional back-end

With a back-end instrument, current circulates to control room and back to the ground.



		DMI 552	DMI 553
Supply		Mains	Battery
Input Voltage (AC & DC)		$0400 \ V_{_{Peak}}$	
Accuracy		±0.1 % of reading	ng ±10 uV
	Amplitude AC	±Peak, ±Peak/√ Peak _{Avg} , RM, RN Factor, Rate of I	1 _{Corr} , Mean, Peak
Meas Values Voltage /	Amplitude DC	Mean, Ripple, f _r Rise	_{ipple} , Peak, Rate of
Current ⁽¹⁾	Harmonics	120 th individual (Amplitude, Phase, Ratio), THC, THD	
	Peak and Hold	Peak Flash, RM _c Rise Flash	_{Corr} Flash, Rate of

X

Option Accessory

	Rugged Digital Measuring Instrument	DMI 552
	Portable Digital Measuring Instrument	DMI 553
Includi	ng	
	Software on USB stick	
	Fiber Optic - USB/Ethernet adaptor (Fi	ber Link)
	Fiber Optic Cable, 20 m	
	Battery (DMI 553)	
	Transport case (DMI 553)	
	Connection set (per channel)	
	Instruction Manual & Test Report	
Extend	led Warranty	
	2 years	DMI/WE2
	3 years	DMI/WE3



DM		
9	DMI 553/BATT	Additional/spare battery pack for
10	DMI 553/SUP	External 12 V power supply for D
	DMI552/MSET-19RACK	Mounting set 19" 3HE for DMI 55
	DMI552/MSET-UNI	Universal mounting set for DMI 5

DMI 55X/SKCH	Software Key to enable addition
DMI 55X/SKDO	Software Key to control up to 8 o ioLogik E1212 (not included).

А	ACCESSORIES		
Hig	h Voltage Div	iders	
11	9231	The 9231 (25 200 kV) have been specially developed double base to allocate the measuring instrument.	
11	9241	The 9241 (25 200 kV) have been specially developed a double base to allocate the measuring instrument.	
Sec	ondary Units		
12	SEK 463	Secondary unit for AC & DC measurement. 140V output	
Cor	nputers		
13	LAPTOP	Laptop, Intel processor, Windows 10, 15.6" display, Fu	
		Industrial PC (EMC tested, suitable for working in HV la	

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HAEFELY Current and voltage - our passion

Global Presence

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Current and voltage - our passion



HIGH VOLTAGE

INSTRUMENT

