

Advanced Test Equipment Corp.

Rentals • Sales • Calibration • Service



IDAS 2823 & 2823-REF

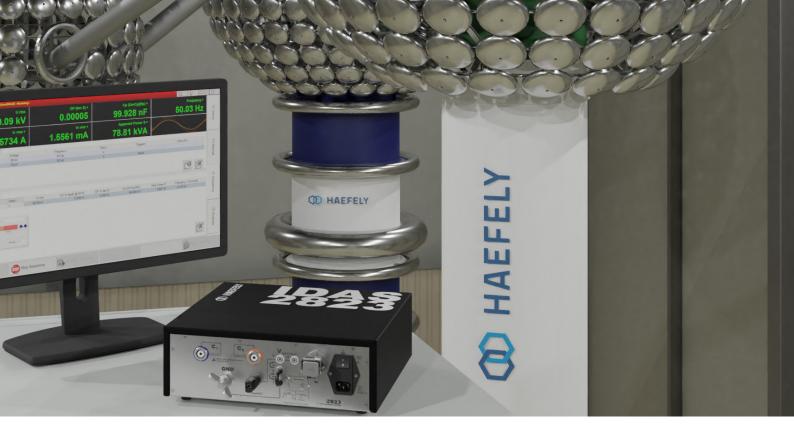
High Precision tan δ / power factor measuring instrument

Leaflet







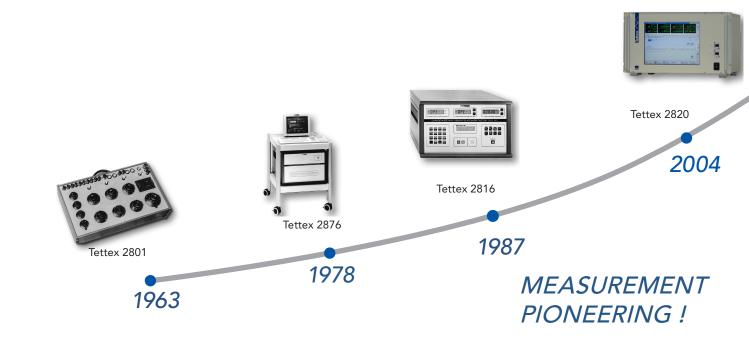


HIGH PRECISION MEASUREMENT INSTRUMENT

The High Precision tan δ / dissipation factor measuring instrument is designed for measurement of very low dielectric losses of high-voltage apparatus. HAEFELY the pioneer in high voltage testing since 1904, has been continuously developing and improving this product line since the first manual measuring bridge Tettex type-2801 was introduced in 1963.

Tettex brand, a part of Haefely, is recognized world-wide for the accuracy and reliability of our measuring instruments. The 2823 belongs to our new generation of measuring instruments, which is a perfect combination of more than 50 years experience in this field together with state of the art technologies.

The use of optically decoupled connection allows complete galvanic isolation between control room and test field, and guarantees operating personnel the highest safety level.



FEATURES

Compact, reliable and EMC hardened design, IP50.	\rightarrow	The galvanic isolation ensures fully safety of the personnel. With the 2823, there is no electrical connection between the control room and the high voltage test room.
Optically decoupled from computer.	\rightarrow	Simple connection to test objects without external shunts or hardware reconnection due to the high input current range
Up to 15A input current with auto-range.	\rightarrow	Increased linearity and extended frequency mea- suring range up to 1 kHz.
Extremely low input impedance	\rightarrow	Backward compatible with older instruments and cab- ling, same connectors used for over 40 years.
Industrial measuring and fiber optic connectors	\rightarrow	Turn key solution from one supplier possible (including power supplies, standard capacitors, current compar- ators, test cells, certified calibration).
Mains Powered	\rightarrow	Connect and forget, No battery pack or recharge needed

ADVANTAGES

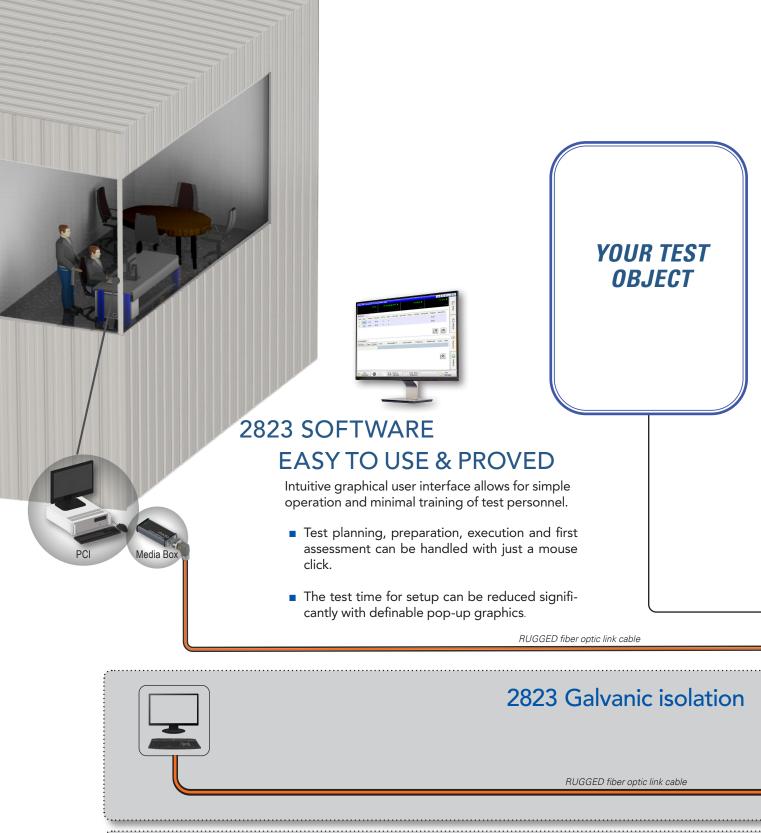


APPLICATIONS

Routine and type test of:

- Power Cables & Accessories
- Shunt Reactors losses
- Capacitors
- Instrument Transformers
- Bushings & Isolators
- Metrology Institutes
- Research & Development

TAN δ dissipation factor measurement



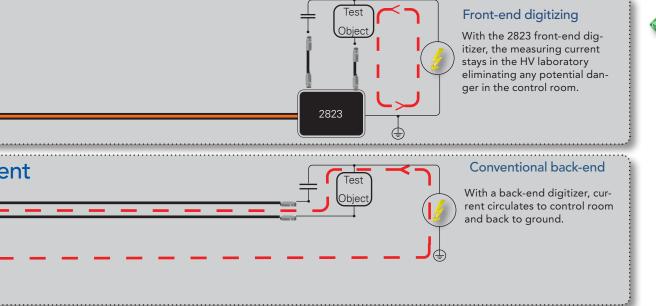




GALVANIC ISOLATION

Fiber optic link between the 2823 and the control PC provides a complete galvanic isolation, with the following benefits:

- The length of the fibre optic cable does not impact the measurement ratio or the calibration.
- Fully ensures safety of personnel. With the 2823, there is no electrical connection between the control room and the high voltage test room.





2823 BASIC SPECIFICATIONS

	2823	2823-REF	
Dissipation factor (tan δ)	<u>+</u> 0.1% RD <u>+</u> 5 x 10 ⁻⁵	<u>+</u> 0.1% RD <u>+</u> 1 x 10 ⁻⁵	1
Capacitance	\pm 0.1% RD \pm 0.05 pF $^{\scriptscriptstyle (1)}$	\pm 0.02% RD \pm 0.01 pF $^{\scriptscriptstyle (1)}$	
Current	0.1% rdg <u>+</u> 0.1 nA ⁽¹⁾	0.05% rdg <u>+</u> 0.05 nA ⁽¹⁾	2
Current Range	10 µA 15 A (2)	10 µA 15 A (2)	3
			<u> </u>

 $^{1)}$ Temperature range : 23°C \pm 5°C $^{(2)}$ Current can be extended up to 10'000A with current extenders 4762, 4761 and 4764

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Complete technical specifications in the 2823 Datasheet available at www.haefely.com

STANDARD PACKAGE

2823 3490

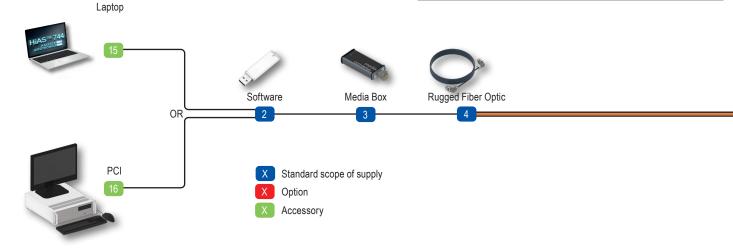
3490101	Measuring Bridge	2823
3490102	Measuring Bridge	2823-REF
Including		
	Software Basic Package in USB stick	
	Fiber Optic - Ethernet adaptor (Media Box)	
	Industrial Fiber Optic Cable, 20 m	
	Test Report and ground cable	
	Instruction Manual (Electronic, PDF)	

OPTIONS

6

Cable sets including:

Cubic Sets	including.	
	1 x Lemo-Lemo Orange marked $C_{_N}$.	
	1 x Lemo-Lemo Blue marked - C_x	
	1 x Lemo-Alligator	
	1 x V-Cable	
	Available lengths:	
4843321	10 m length	28XX/CAB10
4843322	20 m length	28XX/CAB20
4843323	40 m length	28XX/CAB40
Software		
4843241	Office Software Package	28XX/SW
Extended	Warranty	
	2 years	2823/WE2
	3 years	2823/WE3



ACCESORIES

0 4841872	ment Cables Shielded Measuring cab	ole (Orange marked - C _N),		
	Lemo:	N,		Lemo-Lemo/Orange/2
4840206	- 2 m			Lemo-Lemo/Orange/10
4840041	- 10 m			Lemo-Lemo/Orange/2
4842541	- 20 m			Lemo-Lemo/Orange/40
	- 40 m			g,
	Shielded Measuring cat	ole (blue marked - C _x), Lemo.		
4841868	- 2 m	e_{χ} , terro.		Lemo-Lemo/Blue/2
4840203	- 10 m			Lemo-Lemo/Blue/1
4841871	- 20 m	f if f		Lemo-Lemo/Blue/2
4844065	- 40 m			Lemo-Lemo/Blue/4
Measure	ment cable adaptors			
4841895	- Lemo Banana			Lemo – Banan
4840186	- Lemo - small clamp		and the second s	Lemo – Alligato
4840169	- Lemo - large clamp			Lemo – Clam
Accredit	ed Calibration			
4841146	Accredited Calibration	1 2823		2823/AccCA
4844207	Accredited Calibration	1 2823		2823-REF/AccC
Compute	rs			
4840603	Laptop 15"			
6	Industrial PC (EMC test	ted)		PCI 811
Nominal	Capacitor (refers to)			
	Type 3320 Air isolated	(up to 2 kV)		
	Type 3370 SF6 isolated			
	Type NK SF6 isolated (p	
Current	Extenders (refers to)			
3490016	Type 4762 (up to 400 A)	× ×	
3490015	Type 4761 (up to 2'000	A)	17	
3490017	Type 4764 (up to 10'00)		HA	
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This document has been drawn up with the utmost care. We cannot, however, guarantee that it is entirely complete, correct or up-to-date. Subject to change without notice.

V2020.03



Current and voltage - our passion

HV IN

HIGH VOLTAGE

INSTRUMENT

EMC

precision. swiss made.