

# QUASAR

THREE PHASE RELAY TESTING



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- 4 x 300V / 5A outputs
- IEC-61850 Ethernet port
- LAN port
- A and B type USB ports
- Expansion interface
- 6 low level outputs

3 x 60A current outputs

Integral Wi-Fi

Field serviceable

Integral ABS case with wheels

Extensible handle



6 binary inputs

DC measurement

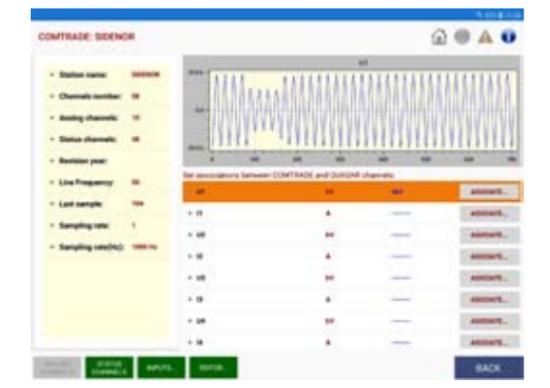
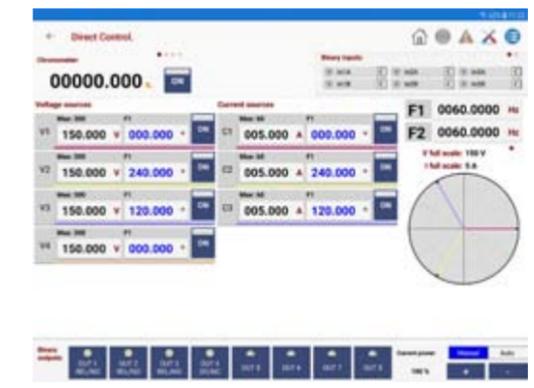
4 relay & solid state binary outputs

115 / 230 Vac supply input

External GND connection

## IEC-61850 inside

The Quasar features a dedicated Ethernet port complying with the latest specifications dictated by the IEC for modern control, automation and protection architecture. You can interchangeably use the same test routines for any relay type regardless the environment (wired or message based) where it will be installed.



## Direct for simple, automated for complex

You can do a fast, simple verification on a few characteristic points of a working protection with your tablet or launch ROOTS in your Windows PC for comprehensive, fully automated testing and reporting of the protection function. The Quasar is the perfect companion for any of the two control approaches.

50,51,67,76	Overcurrent	21	Distance / Impedance
24	Volts / Hertz	25	Synchro Check
27,59	Under-, overvoltage	32	Directional power
78	Out Of Step	79	Recloser
81	Frequency	87	Differential
91,92	Voltage directional	94	Tripping

## Born to be industrial

The Quasar is built for endurance in aggressive work conditions including extreme temperature, dust, and harsh transportation. It is encapsulated in first class protection ABS casing and features integral wheels and extensible handle, which makes it remarkably transportable when added to its compact size and reduced weight. You will save the money and annoyance of adding a bulky transport case.

All the connections are clearly identified on the top surface and you can remove the cover by just sliding it to one side if you wish.

Everything in the Quasar's operation is designed for testing speed, accuracy and efficiency. Collecting a report with the results of your tests will be a matter of making the connections and running the procedures that you have prepared and saved beforehand for each relay type.

The flexible AC input will accommodate virtually any supply with 50 or 60 Hz.

You will find plenty of serviceable parts inside! Actually, the Quasar is made up of plug in modules that are easy to replace, and the software includes a guided calibration process that can be followed by any qualified laboratory. You will never need to return your Quasar for service. Furthermore, it is furnished with upgrade ports for additional test channels and functional enhancements.

## Cloud bound technology

You will update your Quasar app directly from Google's shop into your tablet or Smartphone. We will be maintaining the software for you and will notify you with every update.

The results of your testing can be saved in your device's storage or directly on your favourite cloud based service, and shared with your colleagues or your clients at your convenience.

You can connect and drive your Quasar via Wi-Fi or using Ethernet wiring if required by your control device.



## It had to be small

The Quasar is the smallest and lightest relay tester during transportation because it is built directly inside a PELICASE 1510, which provides unbeatable ABS protection as well as wheels and extensible handle. You can take it with you inside the aircraft's cabin as hand luggage with most airlines.

**56 x 23 x 35 cm**  
(22" x 9" x 14")



**<20 kg.**  
(43 lb)



## Quasar specifications

This equipment is designed for use in high voltage substations and industrial environment. All our products comply with CE Marking directives, related IEC standards and ISO-9001 quality requisites.

Power Output			
	RANGE	POWER	RESOLUTION
4 x Voltage	0÷300 V (0÷900 V in series) or 0÷5 A (0÷20 A in parallel)	100 VA / 100 W	10 mVac
6 x Current	3 x 0÷35 A (0÷60 A for 3") 3 x 0÷5 A	275 VA / 385 W 100 VA / 100 W	1 mA 1 mA
6 x Low Level Output	0-10 Vacpk (1 mA max.)		250 µV
Accuracy	0.1% of value ± 0.03% of range		
Frequency	Bandwidth: 3 kHz Adjustable: 0÷2000 Hz		125 µHZ
Phase Angle	0÷360° / 0± ± 180°		0.001°
Binary I/O			
6 inputs	Dry/Wet ±400 V (p-p). Counter: 3 kHz (100 kHz in one pair)		
4 outputs	Relay / Solid State 300V / 2000 VA / 240 W		
Chronometer	0.0001 - 99999.9999 sec		0.1 ms
Communications			
Ethernet IEC-61850, Ethernet, LAN, Wi-Fi, USB A, USB B, Digital Expansion			
Control	Android App / Windows software		
Physical			
Power supply	100 - 260 V AC, 50 - 60 Hz - Max. 2200W		
Casing	ABS with wheels and extensible handle		
Operation Temperature	0°C to +50°C (32°F to +122°F)		
Size	560 x 230 x 350 mm (22" x 9" x 14")		
Weight	19,5 kg (43 lbs)		
Compliance	CE Marking / IEC-61010 / EMC-50081-2 / EN-50082-2		

Please note: Due to the continuous research and development by EuroSMC, specifications in this catalog may be changed without previous notice. JAB DEEN - preliminary version

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