RGQS

PRODUCT BRIEF

Q-Star Test[™] from Ridgetop Europe

Q-Star Test Current Measurement Products – 2015 Product Overview



ΙΝΝΟΥΑΤΙΟΝ

Static/Quiescent and Dynamic Current Measurement Instruments

- Combine high speed and high accuracy with high capacitive load driving capability
- Combine high speed voltage regulation with fast current measurement functionality
- Provide high resolution and highly repeatable current measurements

Ridgetop Group Inc

Easy to use and test system-independent

Introduce no voltage droop

General Description

Ridgetop Europe's Q-Star Test **static/quiescent current measurement instruments** (also referred to as lobo or lsso modules) serve a wide range of current measurement applications such as: Standard and advanced lobo and/or lsso tests; standby current measurements; power-down current measurements; bias current measurements; average current measurements; analog DC and low frequency current measurements. In addition, Ridgetop Europe's Q-Star Test **dynamic current measurement instruments** (also referred to as lobo modules) serve a wide range of active current measurement applications, including: Dynamic and transient (lobo) current tests; power profiling of circuits and systems; active current consumption; and e-fuse programming validation.

ENGINEE RING

Q-Star Test current measurement instruments are divided into different product categories:

- Analog/Continuous
- Static/Quiescent
- Dynamic
- Supply & Support units
- Custom Solutions

All static/quiescent current measurement instruments have a digital interface and a dedicated fast switching compensated onboard bypass switch, capable of handling large active currents. The table on the next page facilitates selecting a product category.



Table Notes

(1) Measurement instruments with basic functionality combine measurement functionality with simple pass/fail decision making.

(2) Measurement instruments with advanced functionality are userconfigurable and combine measurement functionality with on-board data storage and data processing and decision making capabilities. They serve a wide range of applications. Their combined hardwarefirmware platform easily supports basic and advanced IDDQ/ISSQ test strategies (Delta-IDDQ, relative IDDQ, current ratios, pre/post-stress Delta IDDQ, ...). Instrument functionality can easily be adapted to customerspecific requirements.

(3) Low current ranges are from 100 nA up to 30 mA.

(4) High current ranges are from 50 mA up to 100 A.

Quiescent Instruments Overview Table

	PRODUCT FAMILY										
	Lite	QH-10xx	QD-10xx	QD-13xx		QD-14xx	QH-10xxHC	QD-10xxHC	QD-13xxHC		QD-14xxHC
Basic Functionality (1)											
Advanced Functionality (2)											
Socketable											
# of Measurement Channels		1	1	2	3	4	1	1	2	3	4
Minimal Size											
Low Current Ranges (3)											
High Current Ranges (4)											

Dynamic Current Measurement Instruments

The QT-1411 product family members have a digital interface and allow capturing and storing the dynamic current waveform and simultaneously extracting peak, pulse-width, and charge-related information. They serve a wide range of applications: IDDT (transient current) tests, ECR (energy consumption ratio) tests, power profiling, power consumption measurements, validation of E-Fuse programming, etc.

Custom Solutions

Customized versions of our products or dedicated solutions are available upon request.

Need modified or custom design? Contact Ridgetop at +1 520-742-3300 to discuss your ideal solution!

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