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4400

MS Current Measurement Option



Integrated current meter, e.g. to identify short-circuit situations, eases handling for the user. The 4400 user can test RF, audio and power consumption with one test instrument

No additional external current meter necessary, this saves space in test systems

Power, peak current and average current measurements possible

Easy-to-read numerical measurement display

Current vs. time measurements for the analysis of burst current characteristics with selectable resolutions

Statistical evaluation and overload detection

Battery replacement

In specific test stations at manufacturing lines and repair stations, measurement of the current from the battery is a "must" in order to identify any failure on the PCB (Printed Circuit Board). Quality assurance measures the current in order to characterise standby and talk times.

For this range of applications the 4400 plug-in option "MS Current Measurement" substitutes an external current meter and measures power and current, which the mobile drains from the battery. The user can choose between a numerical measurement and a unique graphical representation of the current versus time measurements. The current changes dynamically as the mobile's power amplifier generates the RF bursts.

In addition the option provides a statistical evaluation for minimum, maximum, average and peak value regarding the selected duration time.

The duration of the graphical representation is 4.615 ms which enables the user to analyse a complete GSM TDMA frame.

The MS Current Measurement Option is an extension of the existing MS Power Supply Option. To connect the 4400 with the mobile, a power supply cable is delivered with the option. An open-ended termination on this cable provides free adaptation into an existing test system.

Both new options extend the test application area of the 4400. The 4400 is now able to supply the mobile under test, measures RF and audio quality and the power consumption with one test instrument.

## Specifications

### Measurement

Range	0 to 400 mA or 0 to 4 A
Resolution	(at 400 mA) 0,1 mA
Resolution	(at 4 A) 1 mA
Accuracy	±2%
Offset	±5 mA
Output voltage range	0 to 10 V

### Recording

Duration	4.615 ms (1 TDMA frame)
Resolution	960 points
Sample rate	192 000 samples/sec

### Connection Cable

A 0.5 meter long power supply connection cable with open ends for free adaptation of user needs is delivered with the option.

### Ordering details

MS Current Measurement Option (requires MS Power Supply Option)	M 248 356
MS Power Supply Option	M 248 355
Willtek Mobile Phone Tester 4403	M 101 105
Willtek Mobile Phone Tester 4405	M 101 104
Willtek Mobile Phone Tester 4407	M 101 103

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