



**italtec**

Company with Quality  
System Certified by DNV  
ISO 9001/2000

## ANALOGIC INSTRUMENTS



### GENERAL CHARACTERISTICS VALID FOR ALL THE INSTRUMENTS

- RS232 for the outside connection
- Operating Frequency 50/60 Hz
- Operating Temperature 0°...40°C
- Temperature of conservation -10° ... 60°C
- Reference's regulations EN61010
- Electric security IEC1010-1 1000V cat III 600V / Cat IV
- Protection Grade IP 40
- Weight 220g
- Dimensions 140x170x70mm

### LMULTI – MULTIMETER

#### Characteristics

Class +/- 1% DC +/- 1,5%AC  
DC Voltmeter 100mV, 1V, 10V, 30V, 100V, 300V, 1000V  
AC Voltmeter 100mV, 1V, 10V, 30V, 100V, 300V, 1000V  
DC Ammeter 10uA, 100uA, 1mA, 10mA, 30mA, 100mA 300mA, 1A, 10A  
AC Ammeter AC 10uA, 100uA, 1mA, 10mA, 30mA, 100mA 300mA, 1A, 10A  
Resistance x0.1Ω, x1Ω, x10Ω, x100Ω, x1KΩ, x10KΩ  
Galvanometer Function central zero +/-20uA  
Diodes test  
Continuity checking with buzzer

### LAAA – AMMETER

#### Characteristics

Class +/- 1% DC +/- 1,5%AC  
DC Current 100uA, 300uA, 1mA, 3mA, 10mA, 30mA, 100mA, 300mA, 1A, 3A, 10A  
AC Current 100uA, 300uA, 1mA, 3mA, 10mA, 30mA, 100mA, 300mA, 1A, 3A, 10A  
Galvanometer Function central zero +/-20uA

### LVVV – VOLTMETER

#### Characteristics

Class +/- 1% DC +/- 1,5%AC  
DC Voltage 100mV, 1V, 10V, 30V, 100V, 300V, 1000V  
AC Voltage 100mV, 1V, 10V, 30V, 100V, 300V, 1000V  
Galvanometer Function central zero +/-20uA

### LWWW1 – SINGLE-PHASE POWER METER

#### Characteristics

Class +/- 1% DC AC  
AC/DC Voltage 60V, 120V, 240V, 480V  
AC/DC Current 0,5A, 1A, 2,5A, 5A

### LWWW3 - THREE-PHASE POWER METER

#### Characteristics

Class +/- 1% DC AC  
DC/AC Voltage 60V, 120V, 240V, 480V  
DC/AC Current 2,5A, 5A

### LCCC – POWER FACTOR METER

#### Characteristics

Class +/- 2% DC AC  
AC Voltage 60V, 120V, 240V, 480V  
AC/DC Current 2,5A, 5A  
The instruments is for the three-phase charge

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