

ANALIZADOR RED ELECTRICA CON MEDIDOR DE ARMONICOS Y SCOPEMETER LVU - 409

INTRODUCTION

The LVU-409 is a precision instrument designed for displaying various AC parameters in 3-phase distribution panels.

Thanks to its isolated RS-485 Modbus RTU communication port, the device is free from ground potential difference issues and measured parameters are safely transferred to factory and building automation systems.

The power supply of the unit is isolated, thus the same device can be used in both 230/400V and 120/208V systems.

The graphic screen allows display of waveforms and harmonic analysis graphs.

Various display screens can be scrolled automatically. The user configurable screen where any measured parameter set can be displayed, transforms the unit to a custom designed measurement panel.

The unit fits into a standard 92x92mm panel opening.

MEASURED PARAMETERS

Phase to phase voltages: U12-U23-U31 Phase to neutral voltages: V1-V2-V3 Phase currents: I1-I2-I3 Phase active power: P1-P2-P3 Phase reactive power: Q1-Q2-Q3 Phase apparent power: S1-S2-S3 Phase power factor: cos1-cos2-cos3 Total active power: P Total reactive power: Q Total apparent power: S Total apparent power: S Total power factor: cos Active power counters: Pc1-Pc2 Reactive power counters: Qc1-Qc2 User counters: USR1-USR2-USR3-USR4 2...31 Harmonics of any voltage or current



FEATURES

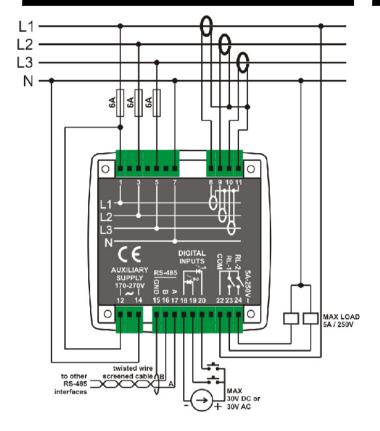
True RMS measurements Harmonic distortion display (31 harmonics) Oscilloscope, waveform display Max demand display User configurable display screen Fully isolated RS-485 serial port **MODBUS-RTU** communication 2 configurable relay outputs Energy pulse output capability Optically isolated, configurable digital inputs Switched dual active-reactive power counters Independent mains/generator energy metering Configurable user counters Voltage transformer ratio for MV applications Password protected front panel programming High visibility, 128x64 pixels graphic LCD Reduced panel depth Wide operating temperature range Sealed front panel (IP54) Plug-in connection system



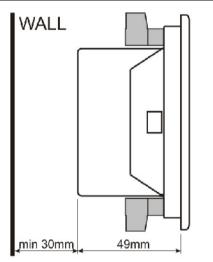


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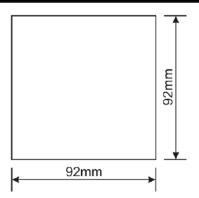
CONNECTION DIAGRAM



MOUNTING TOLERANCES



PANEL CUTOUT



TECHNICAL SPECIFICATIONS

Power Supply Input:	
170 - 275VAC,	
50 - 60Hz nominal (± 10%)	
Different supply voltages available.	
Measurement Input Range:	
Voltage:	10 - 300 V AC (L-N)
	20 - 520 V AC (L-L)
Current:	0.2 - 5.5 A AC
Frequency:	30 - 100 Hz
Accuracy:	
Voltage:	0.5%+1digit
Current:	0.5%+1 digit
Frequency:	0.5%+1 digit
Power(kW,kV/	
Power factor:	2.0%+2digit
Measurement Range:	210 /01 20191t
CT range:	5/5A to 5000/5A VT
range:	1.0/1 to 5000.0/1
kW range:	1.0 kW to 50.0 MW
Power Consumption:	
Voltage burden:	< 0.1VA per phase
Current burden:	< 1VA per phase
Relay Outputs:	5A @ 250V AC
Digital Inputs:	
Active level:	5 to 30V-DC or AC
Min pulse:	250ms.
Isolation:	1000V AC, 1 minute
Serial Port:	
Signal level:	RS-485
Protocol:	Modbus RTU Data
Rate:	9600 bauds
Isolation:	500V AC, 1 minute
Operating Temperature:	
-20°C to +70°C	; (-4 to +158 °F).
Maximum humidity:	95% non-condensing.
Degree of Protection:	IP 54 (Front Panel)
_	IP 30 (Back panel)
Enclosure: Non-flammable, ROHS compliant	
Installation: Flush mounting with rear brackets	
Dimensions: 102x102x53mm (WxHxD)	
Panel Cutout: 92x92mm	
Weight: 350 gr	
EU Directives:	Norms of reference

EU Directives:

2006/95/EC (LVD) 2004/108/EC (EMC) Norms of reference: EN 61010 (safety) EN 61326 (EMC)

PACKAGING INFORMATION

Pieces per Package: 12 pieces Package Size: Package Weight:

280 x 170 x 215mm 4.4 kg

Aviador Zañartu # 2025 Conchalí - Santiago Fono: 7345246 fono/fax: 7364198 URGENCIAS 9-8709358 www.luciovicencio.cl