Network Analyzer with Digital Output Datasheet



Supports up to 256 GB.

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V.25.1

1. INTRODUCTION

1.1. General Features

Network analyzer: 3 phase currents and neutral current, phase-neutral and phase-phase voltages, frequency, active and reactive powers, angle difference between current and voltage, power factor, current and voltage harmonics between 1-63 and current and voltage Total Harmonic Distortion values of each phase. In addition, it reads and records active and reactive energies.

Demand and peak values for these measured quantities can also be monitored on the analyzer.

Many necessary adjustments related to the device (Current Transformer, Voltage Transformer, etc.) can be made through the menu.

In the communicated versions, all read parameters can be monitored remotely via the standard MODBUS protocol and various adjustments can be made.

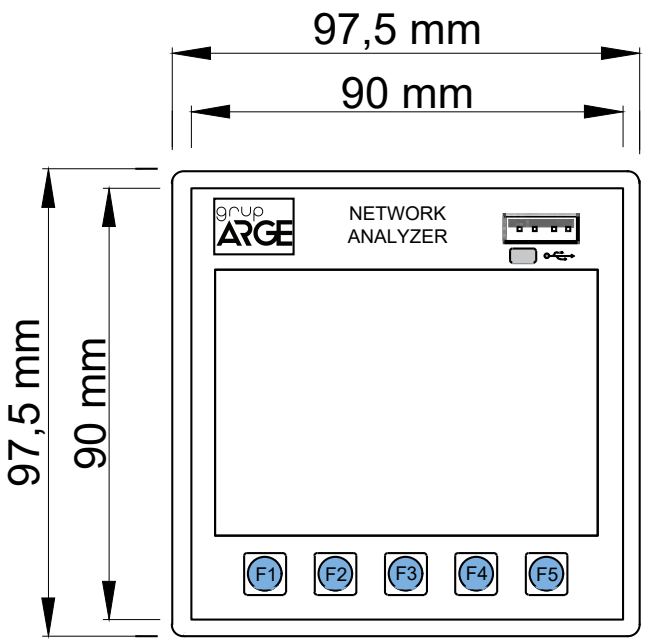
In the versions of our network analyzer product with SD card feature, the electrical quantities selected for recording can be periodically recorded on the SD card.

1.2. Technical Features

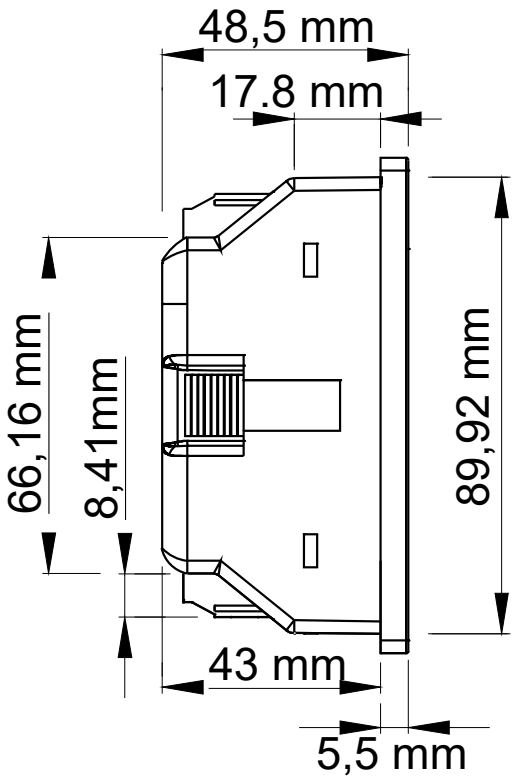
- RS-485 supports standard MODBUS RTU protocol communication channel.
- For Modbus RTU, the device supports 4800, 9600, 19200, 38400, 57600 and 115200 bps speeds.
- The operating ambient temperature of the device is between -10 °C and +55 °C.
- The power consumption of the measurement inputs is less than 1 VA.
- Line voltage can be adjusted in the range of (L-L) 90 V-46000 V
- Line voltage can be adjusted in the range of (L-N) 50 V- 26560 V
- Measuring voltage can be adjusted in the range of (L-L) 22 V-1000 V (45-65 Hz)
- Measuring voltage can be adjusted in the range of (L-N) 13 V-575 V (45-65 Hz)
- Current transformer ratio can be adjusted between 5/5 and 10000/5.
- Optionally, it can be compatible with CT30 type current transformer.
- Operating frequency is 45-65 Hz.
- Minimum measurement value is 1 mA / 2 V.
- Measurement accuracy is 1mA / 0.1 V.

● Periodically saves the peak values of energy, demand and all parameters in permanent memory. Even if the power is turned off, the device continues to record the corresponding values from where it left off when it is turned on again.
● Demand measurement time can be set between 1-60 minutes.
● All device parameters can be monitored remotely via RS-485 communication channel.
● The peak values of energy, demand and all line parameters should be reset from the device menu.
● Our Network Analyzer product has 1 digital output with optocoupler.
● Our Network Analyzer product has a 3.5-inch 320x480 resolution color TFT display.
● Network Analyzer device dimensions (Aspect-Length-Depth) are 97.5 x 97.5 x 50.5 mm.
● Our Network Analyzer product operates under 85-265 V AC voltage.
● Our Network Analyzer product has IP20 protection class.
● Measurement of Current and Voltage harmonics from 1 to 63
● Measurement of Current and Voltage Total Harmonic Distortions
● The device can save the measured magnitudes to the SD card for up to 250 hours in an adjustable period of 500 ms - 25 sec.

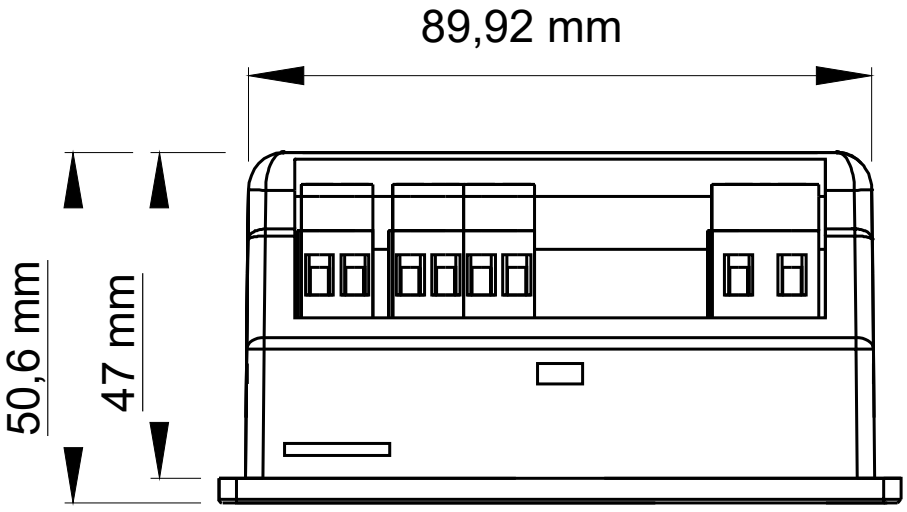
1.3. Technical Drawing



Front View



Side View



Top View

1.4. Connection Diagram

