

# **Specification for DIRIS A20**

Multi-function energy meter for multimeasurement, energy metering and communication of LV networks.

#### **Operation:**

- Backlit LCD display enabling 3 measurements (3 phases) to be displayed The backlight is configurable on the voltage or current or auxiliary supply
- 4 function keys allowing direct access to :

**I**: phase and neutral currents;

U/F: phase to phase or phase to neutral voltages and frequency;

**P/PF**: active, reactive and apparent power and power factor by phase and total;

E: active energy (+) and reactive energy (+)

 Self test diagnostics function to check and correct wiring connection by internal. No need to rewire.

#### **Functions:**

The device enables the following functions to be carried out:

- Current measurement (I1, I2, I3 and IN), phase/phase and phase/neutral voltages, active P(+), reactive Q(+) and apparent S power, power factor PF(L/C) and frequency F.
- The last maximum demand for 3I,  $\Sigma P(+)$  integrated on 5, 8, 10, 15, 20, 30 or 60 minutes. Note: Reset possible in configuration
- Active + (0 to 99 999 999 kWh) and reactive + (0 to 99 999 999 kvarh) energy metering. One pulse output configurable on pulse rate (0,1 to 100 kWh and kvarh and 1 to 10 MWh and Mvarh) and duration (100 to 900 ms).
- Communication with JBUS/MODBUS protocol (up to 38400 bauds in RTU mode and via functions 3, 6, 8 and 16), and a three-wire (+, and 0V) RS485 link enabling remote viewing and configuration.

#### **Technical characteristics:**

The meter is integrated in panel-mounted case H96xW96xD60 or 80mm (with plug-in module)

## Connection by : :

- 1 fixed terminal blocks 6 mm<sup>2</sup> for current,
- 1 removable terminal blocks 2,5 mm<sup>2</sup> for voltage,
- 1 removable terminal blocks 2,5 mm<sup>2</sup> for auxiliary supply, impulse outputs , analogue outputs, inputs and outputs.

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Réf.: SCP-MKE(PLC)/INTER4090



# Interrupteurs industriels et Onduleurs

On-load industrial switches and U.P.S. Systems

- This device is installed on single, 2, 3 or 4-wire balanced or unbalanced three-phase networks, with different possibilities for the number of current transformers :
  - 1, on phase 1
  - 2, on phases 1 and 2 or 1 and 3
  - 3, on the three phases

Current measurement above one or several CT with 5A secondary and primary configurable up to 10,000 A.

Voltage inputs up to above 500 V AC

- Accuracy:
  - for voltages, this is guaranteed with a margin of 0.5 % from 50 to 700 VAC.
  - for currents, this is guaranteed with a margin of 0.5 % from 10 to 120 % of the nominal current
  - for active energy, this conform to IEC 62053-22 in class 0,5S.
  - for reactive energy, this conform to IEC 62053-23 in class 2.

## Part numbers

**Diris A20 :** ref.: 48250A20 (auxiliary supply 110 to 400 VAC or 120 to 350 VDC – CT 5A)

# Plug-in modules:

Metering ref.: 48250080 Communication by JBUS/MODBUS ref.: 48250082

Réf.: SCP-MKE(PLC)/INTER4090