A40 +TE+TR+TF

DIRIS A40 is a Panel Mounted Monitoring Device (PMD). It offers a range of functions for measuring voltage, current, power, energy and quality. It is designed for measuring, monitoring and reporting historical data and allows analysis of a single phase or three phase load.

Multi-measurement:

Current	-	Instantaneous and maximum average I1, I2, I3, In
Voltage and frequency	-	Instantaneous V1, V2, V3, U12, U23, U31, Usystem
Frequency	-	45-65 Hz
Power	-	Instantaneous and maximum average 3P, ΣP, 3Q, ΣQ, 3S, ΣS
Power factor	-	Instantaneous 3PF, ΣPF
Energy	-	Active energy: +/- kWh Reactive energy: +/- kvarh - hours
Harmonic analysis	-	THD Current, voltage, phase-to-phase voltage
Events	-	Alarms on all electrical values
Inputs	-	3 digital inputs *(pulse metering, status checking)*
Outputs	-	2 outputs *(alarms or pulses)*

Power and energy measurement:

Accuracy	-	0.2 DIRIS A-40 Class only
Active energy and active power	-	Class 0.5 with TE, TF or iTR sensors - Class 1 with TR sensors
Accuracy of reactive energy	-	Class 2 with TE, TR or TF sensors

Voltage measurement:

Characteristics of the network measured	-	50-300 VAC (Ph/N) - 87-520 VAC (Ph/Ph) - CAT III
Frequency accuracy	-	Class 0.02

new

4825 ...

type	Aux. power supply	inputs	outputs	description
DIRIS A40 - Multifunction meter				*92 x 92 mm panel mount 68 mm deep*
4825 0500	110 - 400 VAC	3	2	panel mount meter with RS485 Modbus
4825 0501*	110 - 400 VAC	3	2	as above with Ethernet Modbus

* *Modbus TCP, Modbus RTU, BackNet, SMTP, SNTP*

TE...

TR...

TF...

Current sensors *for above A40 multifunctional meter*

Various types of current sensors can be connected to the DIRIS A40: solid-core (TE), split-core (TR / iTR) or Rogowski (TF). This range of sensors is suitable for all types of new or existing installations. A quick RJ12 connection makes wiring easy and reliable and prevents wiring errors. The A40 automatically recognizes the sensor size and type. This guarantees the overall accuracy of the A40 + current sensor measurement chain.

type	model	actual range current (A)	description	pitch (mm)	hole size (mm)
TE - Solid current sensors			class 0.5		
4829 0500	TE-18	0.1…24	solid current sensor	18	Ø 8.6
4829 0501	TE-18	0.5…75	solid current sensor	18	Ø 8.6
4829 0502	TE-25	0.8…192	solid current sensor	25	13.5 ■
4829 0503	TE-35	1.26…300	solid current sensor	35	21 ■
4829 0504	TE-45	3.2…756	solid current sensor	45	31 ■
4829 0505	TE-55	8…1200	solid current sensor	55	41 ■
4829 0506	TE-90	12…2400	solid current sensor	90	64 ■
TR - Split-core current sensors			class I		
4829 0555	TR-10	0.5…90	split-core current sensors	–	Ø 10
4829 0556	TR-14	0.8...192	split-core current sensors	–	Ø 14
4829 0552	TR-16	0.64…120	split-core current sensors	–	Ø 16
4829 0557	TR-21	1.26...300	split-core current sensors	–	Ø 21
4829 0553	TR-24	1.26…200	split-core current sensors	–	Ø 24
4829 0558	TR-32	3.2...720	split-core current sensors	–	Ø 32
4829 0554	TR-36	4…720	split-core current sensors	–	Ø 36
iTR - Split-core current sensors			class 0.5 *(intelligent)*		
4829 0655	iTR-10	0.5...75	split-core current sensors	–	Ø 10
4829 0656	iTR-14	0.8…192	split-core current sensors	–	Ø 14
4829 0657	iTR-21	1.26…300	split-core current sensors	–	Ø 21
4829 0658	iTR-32	3.2…720	split-core current sensors	–	Ø 32
TF - Flexible current sensors *(Rogowski coil)*					
4829 0570	TF-55	3…720	flexible current sensors	–	Ø 55
4829 0571	TF-120	10…2400	flexible current sensors	–	Ø 120
4829 0572	TF-300	32…7200	flexible current sensors	–	Ø 300