—

AC voltage measurement modules – *single voltage measurement point for the entire system.*

- 3 phase voltage and frequency monitoring
- RJ45 bus allows you measurement of voltage as well as supply power to all connected devices
- A complete, dedicated solution for: metering, voltage monitoring and quality analysis of the AC voltage

type	description	module width
U-10 Metering module		
4829 0105	modular AC voltage measurement metering module	18 mm
U-20 Monitoring module *(as above but with additional 3ph THDu monitoring)*		
4829 0106	modular AC voltage measurement monitoring module	18 mm
U-30 Analysis module *(all electrical parameters including history of average values)*		
4829 0102	modular AC voltage measurement analysis module	18 mm

4829 0106

AC current measurement modules

Allocates the load to be measured or to monitor independent current inputs i.e three-phase load and 3 single-phase loads.

- Metering: ± kWh, ± kvarh, kVAh
- Multi-measurement: I1, I2, I3, In, ΣP, ΣQ, ΣS, ΣPF
- Wiring errors are also prevented and implementation is simplified
- **RJ45** and **RJ12** rapid connection and automatically configures connected current sensors

type	description	current Inputs	module width
I-30/60 metering modules			
4829 0110	I-30 modular current measurement metering module	3	18 mm
4829 0112	I-60 modular current measurement metering module	6	36 mm
I-31/61 metering and load curve modules			
4829 0111	I-31 modular current measurement metering module	3	18 mm
4829 0113	I-61 modular current measurement metering module	6	36 mm
I-35/45 analysis module *(all electrical parameters including history of average values)*			
4829 0130	I-35 modular current measurement analysis module	3	18 mm
4829 0131	I-45 modular current measurement analysis module	4	27 mm

4829 0112

DIRIS Digiware S - Current measurement modules

DIRIS Digiware S is a power metering and monitoring service with 3 integrated current sensors enabling the measurement of one three-phase or three single-phase circuits up to 63 A.

- Metering: ± kWh, ± kvarh, kVAh
- Can be mounted upstream or downstream of the protective device
- Advanced monitoring via **VirtualMonitor** *(position, trip etc. without using auxiliary)*
- Matching the pitch of protective devices up to 63 A, solving issues of space constraints

4829 0160	S-130 modular current measurement metering module	3	–
4829 0161	S-135 modular current measurement analysis module	3	–
4829 0162	S-Datacenter modular 3 x single phase monitoring	3	–

4829 0160

DIRIS Digiware S - Accessories

4829 0195	Mounting clip for above Digiware S modules	pack	(x 10)
4829 0196	Holding clip for above Digiware S modules	pack	(x 10)
4829 0189	Flat RJ45 Digiware bus connection cable		0.06 m

Note: For longer length connecting cables refer to E- 13

DIRIS Digiware I/O *(input/output modules)*

The **DIRIS Digiware I/O** *(input/output)* modules can be easily added anywhere within the measurement system thanks to a quick **RJ45** connection I/O modules.

The **I/O-10** modules have 4 digital inputs and 2 digital outputs, which can be used:
- To monitor changes of status of an input or to collect pulses from multi-fluid meters *(water, gas…)*
- To remotely command devices by sending a digital output signal
- Inputs/Connection: 12 VDC 3mA, Outputs: 12 - 48 VDC,12 - 24 VAC 50mA / screw terminal blocks

The **I/O-20** modules have 2 analogue inputs allowing:
- To collect data from analogue sensors, e.g. pressure, humidity, temperature, levels (fuel…)
- To monitor levels by setting up alarms on chosen thresholds
- Inputs/Connection: 0/4-20 mA, 200 ohm / screw terminal blocks

new

4829 0161

	DI	DO	AI		
4829 0140	4	2	–	input/output modules	(18 mm)
4829 0145	–	–	2	input/output modules	(18 mm)