MULTI-HIOKI PSU





Power supply and signal conditioning for up to four HIOKI current clamps — integrated into the KLARIC workflow.

The MULTI-HIOKI PSU integrates HIOKI current clamps into the KLARIC measurement chain. It supplies up to four clamps, conditions their signals into KLARIC-compliant measurement signals and passes them on to MULTI and KLARI measurement modules — including demagnetisation at the push of a button (DEMAG). The result: contact-free AC/DC current measurement with one operating system, one data logger and one data set. Existing HIOKI investments remain fully usable, and the MULTI-8 autorange function is fully available for HIOKI sensors as well.

Features

- Power supply & signal conditioning for up to 4 HIOKI current clamps
- Each input features galvanic isolation
- Voltage Supply Range 9–32 V DC
- Direct connection to MULTI and KLARI measurement modules to support CAN output
- Stackable and pluggable within the MULTI family
- Loop-through of supply voltage and CAN
- LED status indication for all four channels
- Integrated DEMAG function — demagnetisation at the push of a button
- Auto-Range supported with MULTI and KLARI

Application areas

- Contact-free current measurement on live conductors
- High currents where shunts are impractical
- Safety-critical applications, e.g. steer-by-wire
- High-voltage systems and setups requiring galvanic isolation
- Hybrid measurement setups with mixed equipment
- Connecting existing HIOKI investments to KLARIC devices

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KLARIC
Individual Solutions for Measuring and Testing

LOW VOLTAGE MODULES WITH CAN

MULTI-HIOKI PSU

Technical data

Channels	Up to 4 HIOKI current clamps
Function	Power supply and signal conditioning into KLARIC-compliant measurement signals
Voltage Supply Range	9 – 32 V DC
Output	Conditioned measurement signal to MULTI / KLARI measurement modules (e.g. MULTI-8)
DEMAG	Integrated demagnetisation function, triggered at the push of a button
Loop-through	Supply voltage and CAN
Status indication	LED status per channel (4 channels)
Mechanics	Stackable and pluggable with the MULTI module family
System integration	KLARIC Plug-and-Measure workflow; MULTI-8 autorange fully available for HIOKI sensors
Sizing	Stackable aluminum housing 62/120/40 mm (L/W/H)
Weight	420g
Temperature Range	-40 °C to +85 °C / -40 °F to 185 °F
Protection Class	IP65

Compatible HIOKI Current Clamps (Examples)

Model	Rated current	Sensitivity	Basic Accuracy	Max. Ø
CT6841A	20 A	100 mV/A	±0.2% rdg	20 mm
CT6843A	200 A	10 mV/A	±0.2% rdg	20 mm
CT6844A	500 A	4 mV/A	±0.2% rdg	20 mm
CT6845A	500 A	4 mV/A	±0.2% rdg	50 mm
CT6846A	1,000 A	2 mV/A	±0.2% rdg	50 mm

Compatible HIOKI Pass-Through Sensors (Examples)

Model	Rated current	Sensitivity	Basic accuracy	Max. Ø
CT6877A	2000 A	1 mV/A	0.04 % rdg	Ø 80 mm
CT6876A	1000 A	2mV/A	0.04 % rdg	Ø 36 mm
CT6875A	500 A	4mV/A	0.04 % rdg	Ø 36 mm
CT6904A	500 A	4mV/A	±0.025 % rdg	Ø 32 mm
CT6873	200 A	10mV/A	±0.03 % rdg	Ø 24 mm

Further HIOKI types (e.g. CT6904A) on request. Clamp data as per manufacturer specification — please refer to the HIOKI sensor datasheet for details.

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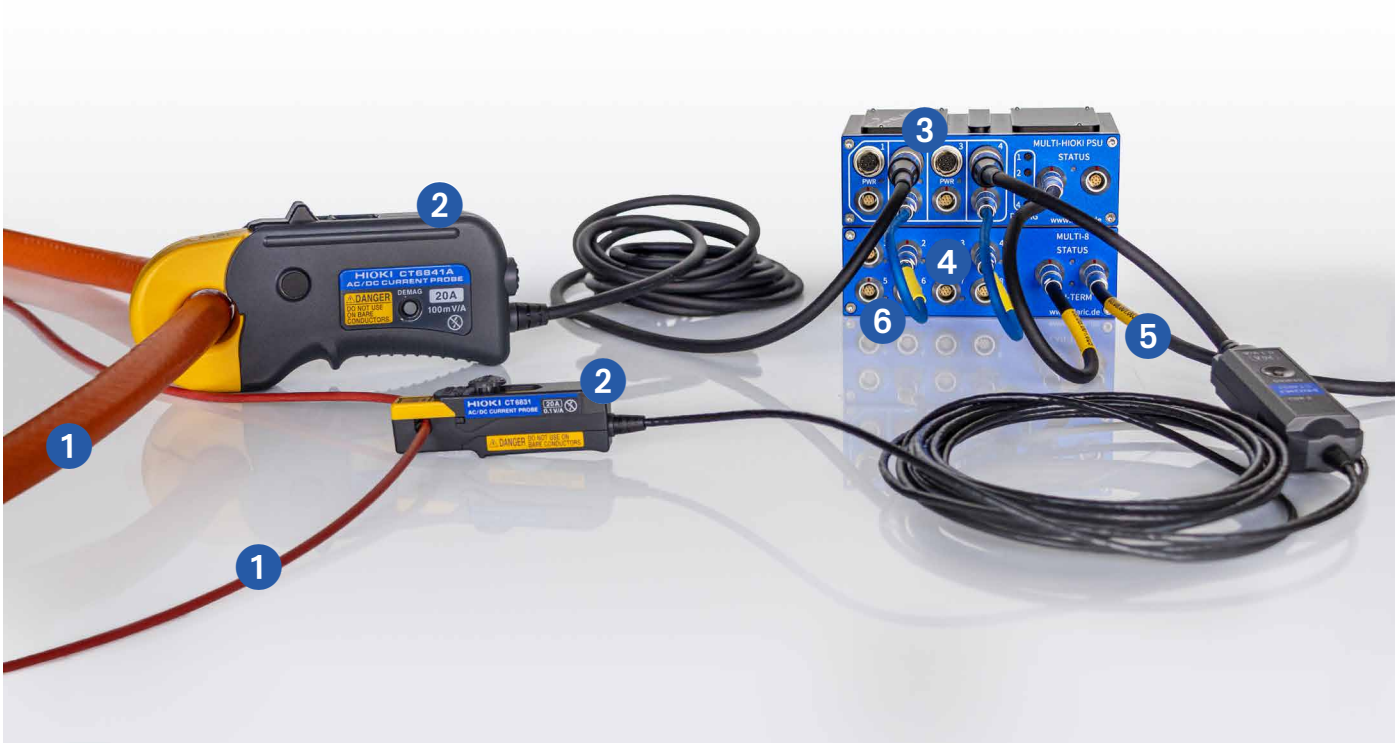
LOW VOLTAGE MODULES WITH CAN

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Measurment chain with HIOKI current clamp

1. Measurement object — AC/DC current in the conductor under test
2. HIOKI current clamp (e.g. CT6841A) — up to 4 channels, analogue signal
3. MULTI-HIOKI PSU — power supply, signal conditioning, DEMAG; supply and CAN looped through
4. MULTI-8 measurement module — digitization with autorange
5. CAN bus (e.g. Kvaser Leaf v3) — to the KLARIC software / data logger
6. Cable analog PSU out to Klaric measurement module in





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