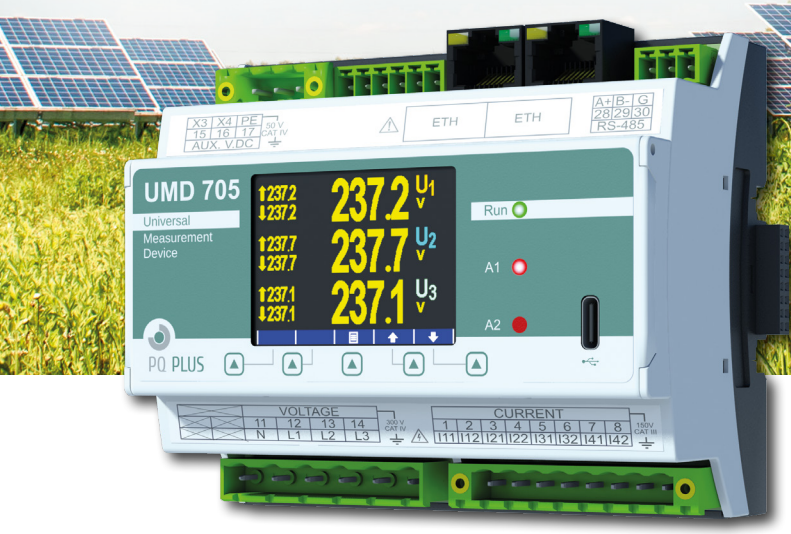
The new all-rounder for all demanding challenges

PQ PLUS GmbH®

The new class for the local grid station and beyond.

No matter if in the local grid station, for the SGS controller on self-generation systems, in industry, or as part of a comprehensive energy management system – the new UMD 705 not only supplies highly precise measurements but also offers pervasive insights into grid quality.

Sophisticated in all the details – combine a compact build with comprehensive communication skills to permit seamless monitoring on the DIN rail.



The new UMD 705 universal measurement device

UMD 705RCM-T & UMD 705LB

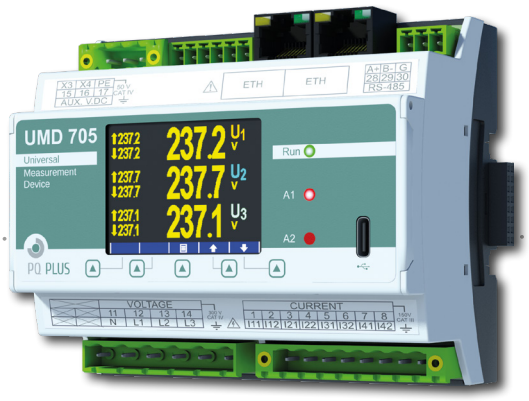
More than just a universal measurement device – the new core of smart measuring technology.

The UMD 705RCM-T and the UMD 705LB represent a new generation of universal measurement and analysis devices that far exceed the services offered by conventional universal measurement devices or grid quality analysers.

Designed for the DIN top-hat rail and packed with innovative technology, these devices are the perfect solution for complex demands in the smart grids of today – and tomorrow.

NEXTGENERATION

Networked. Precise. Future-proof.



UMD 705RCM-T with integrated differential current monitoring (RCM):

The right device for operators of energy distributions, production systems, or data centres: The RCM channel permits early detection of residual currents – within one and the same device, without needing any additional hardware.

UMD 705LB – the diverse grid analyser

For all applications that require seamless monitoring and analysis of voltage quality, load behaviour, and energy flows. Ideal for documentation in accordance with EN 50160 or for ISO 50001 applications

Highest data quality for the highest demands:

- **Full PQ analysis:** Harmonics, inter-harmonics, flicker, asymmetry, voltage events – completely recording-capable and ready for evaluation based on international standards.
- **High-performance logic functions:** Digital I/Os, freely programmable alarms, triggers, and links of application-specific automation right on the device level.
- **Integrated data logger**: For long-term recording of energy flows, grid parameters, and events – with local or remote-access storage.
- **Connection made simple:** Supports all common protocols for simple integration: Modbus TCP/IP, Modbus RTU, MQTT, SNMP, etc.

Considering practical use – from mounting to operation

- **DIN rail mounting** for a tidy and easy-to-connect setup.
- **Accessible parametrisation** using various interfaces with the free ENVIS software.
- **Robust design**, industry-capable and suitable for the harshest environments.
- **Scalable** from single-point measurement to comprehensive grid analysis with multiple measurement points.

Result:

The UMD 705RCM-T and the UMD 705LB open up a new chapter of grid monitoring. These devices are true all-rounders that handle measuring tasks of all kinds.

The multitalent for self-generation systems (SGS) – including the controller:

The UMD 705RCM-T is playing its strengths in particular in systems with photovoltaic infeed, wind power, or cogeneration plants: The quick measurement refresh rate and high accuracy turn it into the ideal platform for SGS control – in connection with various controllers or as a component in customer-specific solutions.

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