

# Pulse measuring device - IPCH-4X-PCL-TCP-24DC-UT - 1045379

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Evaluation unit for the real-time recording of surge currents and transient overvoltages. Connection of up to four external sensor lines and a floating remote indication contact. Communication of the measurement data to the PROFICLOUD via Ethernet.

## Product Description


ImpulseCheck is the first assistance system for surge protection in the field of mains protection. The system consists of an IPCH-4X-PCL-TCP-24DC-UT pulse measuring device, the sensors, and the ImpulseAnalytics application in the PROFICLOUD. The current state of the surge protection can be accessed online at any time. In addition to monitoring the surge protective devices, ImpulseCheck and ImpulseAnalytics also provide a simple and comprehensive analysis of the EMC systems. The accurate recording of electromagnetic malfunctions on the supply lines helps to draw conclusions as to their causes. Possible disturbance variables are detected before a system failure. Service and maintenance work can thus be planned ahead and implemented more effectively.

## Your advantages

- Record state of the system. Recognize state of health (SoH) of the SPDs
- Create standard-compliant status reports at any time at the push of a button
- Using digital added values and services thanks to cloud-based logging, representation and combination of measured values in PROFICLOUD



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 633879
GTIN	4055626633879
Weight per Piece (excluding packing)	127.900 g
Custom tariff number	85437090
Country of origin	Germany

## Technical data

### Dimensions

Horizontal pitch	1.3 Div.
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### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-35 °C ... 85 °C

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## Technical data

### Ambient conditions

Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)
Altitude	≤ 2000 m (amsl (above mean sea level))

### General

Housing material	Polyamide
Color	traffic grey A RAL 7042
Mounting type	DIN rail: 35 mm
Type	DIN rail module, one-piece
Supports cloud computing	yes
Cloud platform	Proficloud

### Typical characteristics

Interface	Ethernet
Number	1
Connection method	RJ45
Note on the connection method	pluggable
Transmission speed	10/100 Mbps
Basic functions	Acquisition of sensor data
Operation	via Proficloud application and web interface
Operating voltage	24 V DC (-15% ... +20% including all tolerances and ripple)
Operating current	≤ 70 mA
Detectable values (current strength)	100 A ... 40 kA
Sampling rate	500 kHz
Maximum measuring period	1 s

### Connections

Connection name	24 V supply
Connection method	Screw terminal block
Number of connections	4
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Stripping length	8 mm
Note	The T connector can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail according to EN 60715.

### Remote indication contact

Connection name	SPD remote indication contact monitoring
Connection method	Screw terminal block
Screw thread	M3
Stripping length	8 mm

### EMC Directives

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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### EMC Directives

Interference emission	Noise immunity test in accordance with EN 61000-6-2 Noise emission EN 61000-6-3/IEC 61000-6-3 Class B
Immunity to surge	Noise immunity test in accordance with EN 61000-6-2 Transient overvoltage (surge) EN 61000-4-5/IEC 61000-4-5 Criterion B; DC supply lines: ±0.5 kV/±1 kV (symmetrical/asymmetrical), fieldbus cable shielding: ±1 kV
Immunity to burst	Noise immunity test in accordance with EN 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion A, 2.2 kV
Immunity to EF	Noise immunity test in accordance with EN 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
Immunity to ESD	Noise immunity test in accordance with EN 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B, 6 kV contact discharge, 8 kV air discharge
Immunity to conducted interference	Noise immunity test in accordance with EN 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A; Test voltage 10 V

### Standards and Regulations

Standards/specifications	EN 61000-6-2
	EN 61000-6-3

## Classifications

### eCl@ss

eCl@ss 9.0	27200316
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### ETIM

ETIM 6.0	EC002300
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## Accessories

### Accessories

#### DIN rail connector

DIN rail bus connectors - ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY - 2713722



DIN rail connector, number of positions: 5, pitch: 3.81 mm, color: light gray, Articles with gold-plated contacts, bus connectors for connecting with electronic housings

### Sensor

## Pulse measuring device - IPCH-4X-PCL-TCP-24DC-UT - 1045379

### Accessories

Sensor - IPCH-SC-3.0 - 1069191



Pulse measuring device sensor for the real-time recording of surge currents and transient overvoltages. Length: 3.0 m.

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### Necessary add-on products

Sensor - IPCH-SC-1.5 - 1045380



Pulse measuring device sensor for the real-time recording of surge currents and transient overvoltages. Length: 1.5 m.

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