

**PNP-U-MOD-TCP****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Plug&Play-Box**

To establish an energy management system requires precise knowledge of the energy consumption of all machines and equipment within a plant.

Our Plug&Play-boxes are the ideal retrofit solution for operators who also want to include existing machines in their energy management.

The product series consists of 4 products that can record energy or compressed air consumption of devices and machines in the field. Electricity or compressed air consumers that have not yet been considered energetically are simply connected to the box. The boxes are simple to install and integrate easily into all existing systems.

Data collection and processing are simple, fast and secure. Communication takes place via Modbus/TCP.

Your special advantages

- Optimal retrofit solution
- Easy to install
- Detailed information on current and voltage curves, power consumptions

**General ordering data**

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| Version    | Rated current : via current transformer 1 A/5 A,<br>Applications: Power and flow measurement |
| Order No.  | <a href="#">2716690000</a>                                                                   |
| Type       | PNP-U-MOD-TCP                                                                                |
| GTIN (EAN) | 4064675002567                                                                                |
| Qty.       | 1 pc(s).                                                                                     |

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## Technical data

## Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 225 mm | Depth (inches)  | 8.858 inch  |
| Height     | 340 mm | Height (inches) | 13.386 inch |
| Net weight | 999 g  | Weight          | 7.320 g     |
| Width      | 550 mm | Width (inches)  | 21.653 inch |

## Temperatures

|                     |                |                                 |                                      |
|---------------------|----------------|---------------------------------|--------------------------------------|
| Storage temperature | -25 °C...70 °C | Humidity at storage temperature | 0...90 % (no condensation)           |
| Ambient temperature | -10 °C...45 °C | Humidity                        | 0...75 % RH (at ambient temperature) |

## Measuring current input

|               |                                    |
|---------------|------------------------------------|
| Rated current | via current transformer 1<br>A/5 A |
|---------------|------------------------------------|

## Communication

|           |                                                           |                                                                                                                       |
|-----------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Interface | Protocol                                                  | TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), FTP, SNMP |
|           | Ethernet 10/100 Base-TX (RJ-45 socket), Web server/e-mail |                                                                                                                       |

## Inputs/outputs

|         |                                  |                   |     |
|---------|----------------------------------|-------------------|-----|
| Display | LCD with backlit display, 2 keys | Temperature input | Yes |
|---------|----------------------------------|-------------------|-----|

## Technical data

|                                    |                                                   |                        |                                         |
|------------------------------------|---------------------------------------------------|------------------------|-----------------------------------------|
| Air pressure (operation)           | ≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2 | Applications           | Power and flow measurement              |
| Pollution severity                 | 4                                                 | Protection degree      | IP54                                    |
| Rated current                      | via current transformer 1<br>A/5 A                | Type of mounting       | Wall mounting;<br>Connection side lying |
| Usage                              | Plug & Play                                       | Standards              | IEC 61439-2                             |
| Measurement range, voltage L-L, AC | 480 V                                             | Surge voltage category | II                                      |
| Voltage supply                     | 230 V                                             |                        |                                         |

## Insulation coordination

|                    |   |                        |    |
|--------------------|---|------------------------|----|
| Pollution severity | 4 | Surge voltage category | II |
|--------------------|---|------------------------|----|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002301    | ETIM 7.0    | EC002301    |
| ECLASS 9.0  | 27-14-23-30 | ECLASS 9.1  | 27-21-03-01 |
| ECLASS 10.0 | 27-14-23-30 | ECLASS 11.0 | 27-14-23-30 |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Important note**

## Product information

**Flow measurement**

The PNP-63-MOD-TCP and PNP-U-MOD-TCP products work with an external flow sensor.  
The signal line of the sensor is connected to the measuring device via an SAI connection.

**Temperature measurement**

The ambient temperature is recorded with an external temperature sensor.  
The signal line of the sensor is connected to the measuring device via an SAI connection.

**Power consumption measurement**

The PNP-16-MOD-TCP, PNP-32-MOD-TCP and PNP-63-MOD-TCP products are provided with integrated current transformers.

The power line is guided via the CEE connections through the measuring device to the machine or plant.

The PNP-U-MOD-TCP product works with external current transformers.

The signal lines of the current transformers are connected to the measuring device via HDC connections.

**Communication**

The measured values are transferred from the measuring device to the network via a data line.

The measured values can be displayed in real time on a connected PC.

**Downloads**

## User Documentation

[Operation manual for used digital flow switch PFMB7202](#)[Quick guide for used digital flow switch PFMB7202](#)[Quick installation guide PnP-Box- series](#)

## Brochure/Catalogue

[Catalogues in PDF-format](#)

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## Drawings

