

## Indu-Sol GmbH - Specialist in Industrial Networks

# Quality tester PB-QONE

#### **Function**

The **PB-Q**<sup>ONE</sup> is a tool for the complete evaluation of PROFIBUS communication quality. With the provided adapter a non-reactive connection to the PROFIBUS network is allowed. Its ease of use and clear and automated evaluation of measuring results allow to reliably evaluate the state of the physical and logical transmission quality in the network. In addition, the PB-Q<sup>ONE</sup> offers a powerful topology function.

### Results

In this overview, all bus devices are displayed in the form of a device matrix including address and detailed information. The colouring of each devices (green, yellow, red) allows to immediately evaluate the state of each device. Additionally, the results of the bus physics and bus communication evaluation are clearly displayed.

### **Quality values**

PROFIBUS is based on voltage difference signal which transfers the logical telegram content to the wires A and B. The level of the voltage difference as well as the shape of these signals are indicators of the physical transmission quality respectively the signal quality. As result a bar chart diagram with a quality value for each device in the network is displayed.

## **Telegram mode**

Further analysis possibilities are available in the telegram mode. Through a number of filter and trigger options the data traffic can be evaluated based on events or defined data content.

## **Topology Scan**

It is the only tool on the market to offer fully automatic, non-reactive topology scan performable during a running production. As result the PB-QONE represents the real wiring of all devices and even identifies repeaters, measuring points and the cable lengths between the devices.

## Technical data

- PROFIBUS port:
- USB:

9 pole D-SUB connector USB 2.0 port

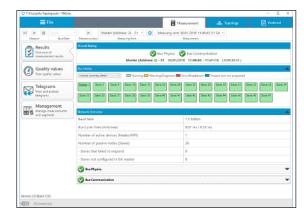
- Transmission rate: 9,6 kBit/s to 12 MBit/s
- Power supply:
- Dimension (H x W x D):
- Type of Protection:
- Operating temperature:
- Storage temperature:
- Conformity:

500mA via USB 60 x 117 x 35 mm IP20 0 °C to +50 °C -20 °C to +70 °C CE

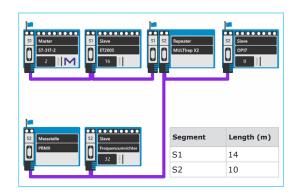
- Scope of delivery
- PROFIBUS Tester PB-Q<sup>ONE</sup>
- D-Sub 9-pin adapter cable
- USB cable (3 m)
- CD with operating software "Indu-Sol Suite" and device manual
- Transport case



PB-Q<sup>ONE</sup>







Topology

| Ordering details                            | Art. No.  |
|---|-----------|
| PB-Q <sup>one</sup>                         | 110010050 |
| Accessories                                 |           |
| PROFIBUS PA adapter for PB-Q <sup>ONE</sup> | 110020110 |
| M12 Y Measuring adapter                     | 110020018 |