# Digalox®

Digital panel meters

# Digalox® DPM72 Multi measuring instruments for Volt & Ampere

Multi measuring instruments for Volt, Ampere and power with data transfer via USB, radio (2,4 GHz mesh network), or RS485-Modbus, with RGB graphical display or without display for DIN rails

## Description

Unique, innovative, and multifunctional: the graphic panel meters DPM72-MP and -MPN with RGB-backlight are characterised by extensive functions and display modes. A variety of measurement modes (volt AC/DC, ampere AC/DC, frequency, power, cos phi) are supported. On the high-quality multi display, up to four parameters can be displayed at the same time and threshold values can be assigned to an individual colour warning, which then draw attention to themselves by coloured lighting or flashing. With a selection of interfaces for individual configuration and the transfer of measurement data in real time, the DPM72 measuring devices are versatile and suitable for a wide range of industrial applications.

As of 2020 the additionally available instruments Digalox® DPM72-MP+ and DPM72-MPN+ expand the field of application with additional interfaces: this enables continuous data transmission via USB or wirelessly via radio (2.4 GHz mesh network) as well as via RS485-Modbus-interface. The multifunctional measuring devices are particularly in demand in the area of remote monitoring of machine and operating data, especially since they are also available as a DIN rail version without display. In addition, the models feature a counting function with data retention. This enables operating-hours-counters or time-counters for exceeding and falling below threshold values, as well as ampere-hour- or energy-meters.

## Graphical display

A high-quality graphic display with 16 grey levels and RGB backlight shows up to four measured values simultaneously in different display modes on the multi display, e.g. with easy-to-read pointer graphics, via digital display or bar graph. Other possible display designs are the popular level indicator or a graphical

trend of the measured values. Devices without display are used via Modbus interface or XBEE radio network as suppliers of measurement data for Digalox® displays or processing devices from other manufacturers.

## Examples of possible display configurations
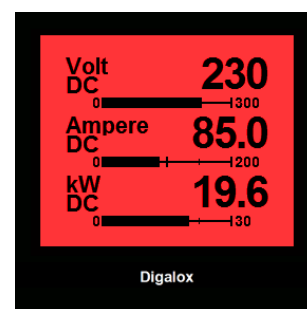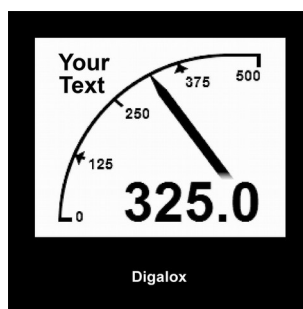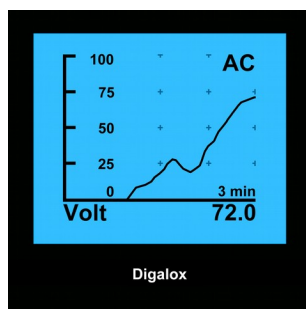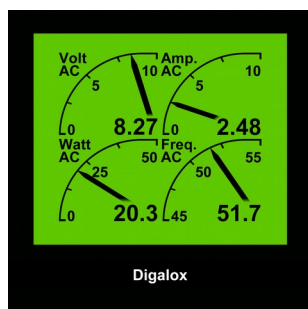
## Extensive adaptability via software

Using the "Digalox® Manager" configuration software, the measuring devices can be set up individually - for example, it is possible to upload own texts or a customer-specific splash screen. Individually adjustable threshold values can be assigned to various colour warnings, for example the display can glow blue or flash red. Scale deflexion and labeling, display designs, as well as measured value scaling and linearization can be adjusted as required. The measured values can be graphically evaluated within the software and exported as a CSV file.
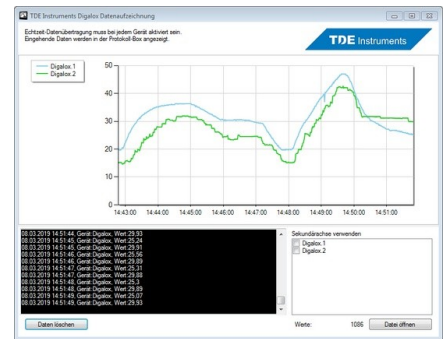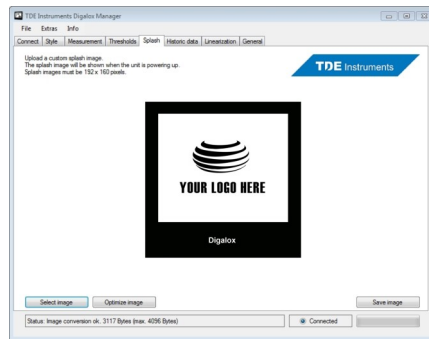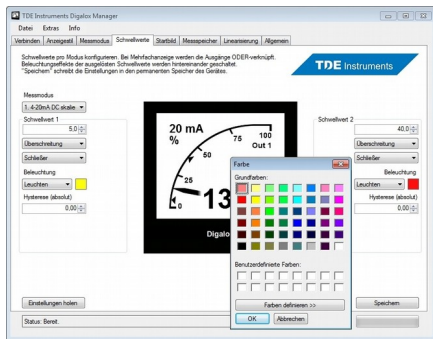


## Interfaces & measurement data recording

All DPM72 measuring instruments record the measured data over a time period of three minutes up to 14 days. The data transfer from the DPM72-MP and -MPN models takes place via a galvanically isolated USB interface in realtime. As of 2020 the additionally available instruments Digalox® DPM72- MP+ and DPM72-MPN+ expand the field of application with additional interfaces: this enables continuous data transmission not only via USB but also wirelessly via radio (2.4 GHz mesh network) as well as via RS485-Modbus-interface.

## Switching outputs

Two galvanically isolated alarm outputs enable the device to trigger an alarm as individually adjustable threshold values are reached. The user can be made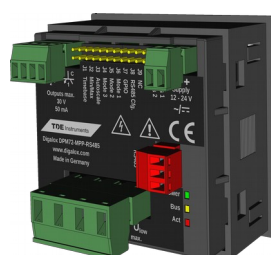 aware of special events such as exceeding a maximum value by flashing in colour or lighting up. The adjustable hysteresis function can be used to control simple on and off switches.
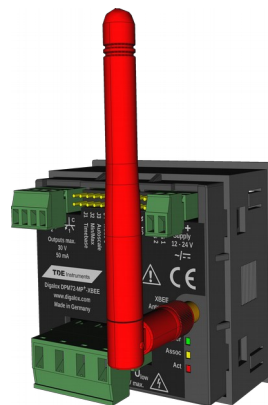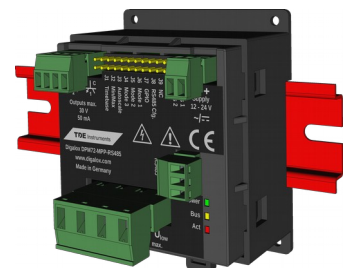
## Housing variants
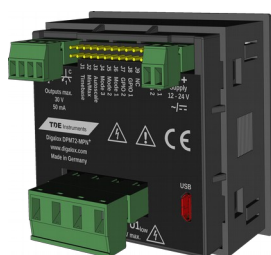


**USB**
Galvanically isolated supply 5 V

**Modbus**
3 x 3,5 mm RS485

**XBEE**
Wireless transmission via 2,4 GHz mesh network

**Without display**
Mounting on DIN rail for XBEE and Modbus

## Specifications at www.digalox.com