

MESOMATIC

XDK851

Benchmark for sensor display units



APPLICATIONS

- Display unit for load cells
- Versatile connection to PLC / system controls
- Inputs and outputs for direct scale control/signalling
- Dosing: single weighing, totalisation
- Dosing control with multiple components
- Recipe management
- Various dashboards depending on the application (display, multi-sensor, dosing)
- Industrial or calibratable version

HIGHLIGHTS

- Simple operation: With its intuitive **full-color touch display**, the XDK851 enables quick information and parameter changes.
- **User levels** with different authorizations can be defined, e.g.
 - System manufacturer
 - User Setter
 - User Operator
- The **software** can be **customized/extended**
- **The status** of buttons / switches and indicator lights / buzzers **connected directly to the XDK851** can be verified and controlled by the PLC, e.g. dosing start/acknowledgement, status LEDs
- **You can order devices from us that bear your signature**
 - Customer-specific slide-in strip on the front
 - Service contact can be customized in the menu
 - Customer-specific pre-configuration of devices possible before delivery
 - Individual front labelling
- The **USB interface** of the XDK851 for saving and backing up configurations. It facilitates the adjustment and restoration of settings in industrial applications and offers additional security through simple backup creation.
- The XDK851 is the compatible, advanced **successor and replacement for the DK800/DK850!** Systems can be (further) operated in the long term with a modern control system.
- **All connections are pluggable** (connections compatible with DK800/DK850).
- **Compact design** for front panel installation or in stainless steel housing.
- Many different configurations can be realized thanks to the **modular design** with 4 freely assignable slots.
- In terms of **connectivity**, nothing is left to be desired.

COMPATIBILITY

The XDK851 replaces the DK800 and DK850 series. When designing the new XDK851, compatibility with the DK800 and DK850 devices, which are used thousands of times, was a key requirement.

The aim was to develop a new measuring amplifier that could easily be used as a replacement device for existing systems if required.

- XDK851 devices can be mechanically installed in place of DK devices without adaptation
- Identical front panel cut-out
- Lower installation depth
- No dust cover required, IP54 as standard
- Identical connection plugs
- Largely compatible communication interfaces

MODULARITY

The new XDK851 also sets standards in terms of modularity and offers multiple configuration options on a single platform.

The completely new architecture of the device offers 4 freely available slots. With a variety of connection modules, the device is available in different configurations.

Thanks to this high degree of modularity, a large number of measuring amplifiers or interfaces can be integrated in order to generate devices for a wide variety of applications on the same platform and with the same operating philosophy..

The previously available variants of the DK800/DK850 are thus covered.

With optional communication protocols, the XDK851 opens up many more possibilities and offers future-oriented solutions. No matter what special requirements you have - with the XDK851 we will find simple solutions based on standard components.



The following modules can be combined in almost any way:

- Measuring amplifier for load cells
- Analog output (current / voltage)
- Digital inputs and outputs (up to 14 I / 21 O)
- Analogue inputs (current / voltage)
- Serial interfaces (RS232 / RS485)
- ProfiBus
- ProfiNet / Ethercat
- Ethernet

CONNECTIVITY

The innovative XDK851 also sets new standards in terms of "connection to the outside world" and leaves nothing to be desired.

As the state-of-the-art, technologically advanced successor to the proven DK850 and DK800 series, this device not only offers the comprehensive connectivity options of its predecessors, but also takes networking to a new level.

Thanks to the complete modularity of the XDK851, you can integrate a wide range of additional interfaces and protocols, giving you unprecedented flexibility and customization options.

With optional communication interfaces, the XDK851 opens up further possibilities and offers you a future-proof solution. No matter what special requirements or compatibility protocols you need - the XDK851 can be individually adapted.

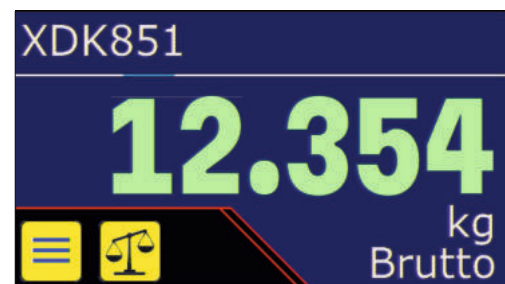


OPERATION

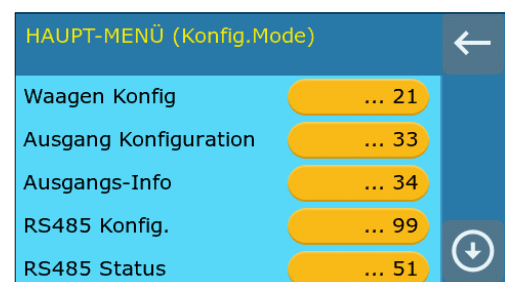
Setting up and operating the new XDK851 is intuitive and can be done by the scale builder and end user without a manual. Compared to the DK850, this is a whole new world and, compared to the competition, simply easier!

The user interface also offers many other advantages:

- Bright daylight readable display
- Touch/soft buttons
- Multi-language capability
- Enabling of individual masks or areas possible (PIN protection)
- Visible set-up status
 - Delivery status
 - Configured
 - Adjusted / ready for use
- Service contact with QR code also for manufacturers of scales can be set up



Display



Menu

TECHNICAL DATA

- Power supply 12 .. 24V DC
- Power consumption <5W, depending on options
- Operating temperature -10 .. +40°C
- Front dimensions 150mm x 91mm
- Front depth 10mm
- Front panel cut-out 136 +2mm / 67 +2mm
- Mounting depth 81mm
- Insert label 20 x 80mm
15 x 50mm visible
- IP protection class front side IP54
- Display 4,3 Zoll, 95 x 54mm
full color, 800cd/m²,
360° view
- Touch resistive
touch display

WEIGHING CELLS

- Connection max. 8 load cells
(350 Ω) parallel
- Measuring range 5mV ... 40mV
uni- or bipolar
- Resolution 20nV
- Power supply 5V DC for load cell
- Load cell 6 wire (4 wire)
- Zener barriers possible
- Monitoring extensive error
detection
- Sampling rate 100 Hz (6 to 800 Hz)
- Filtering software, multilevel

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