

SmartKit

Data sheet

General

The SmartKit consists of several modules. The **gateway with smart software** that automatically records machine conditions. The **one-tip input mask** for the machine operator to systematically record reasons for downtime. The **Operator Interface (HMI)**, the full-fledged panel PC with ideal touch screen.

The Gateway

The Gateway is the heart component of the SmartKit. It has interfaces for voltage measurement and contactless current measurement. It is a full-fledged SmartMeter that controls and records power consumption and power generation and can make it available on Clouver. The current measurement is contactless via current clamps to measure currents up to 100A in the standard version.

The SmartKit has four inputs for current measurement and three inputs for voltage measurement. This allows measurements on all three phases and even the neutral conductor.



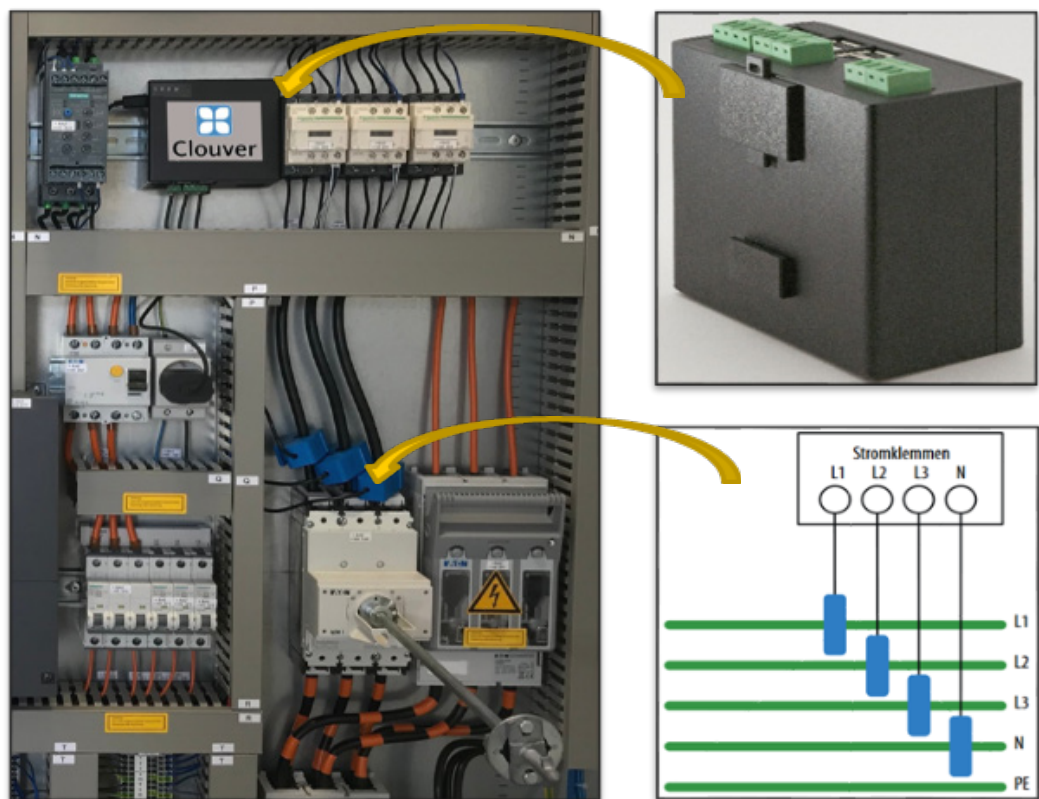
The Smartkit Gateway

Technical Data

Voltage measurement range	0-390V eff. 3-phase oder 3x 1-phase
Current range	0-100A (others on request) 3-phase + neutral conductor (contactless with current transformers)
Measurement accuracy	2%
Power supply	24VDC (Not included in delivery)
Internal consumption	3,7W
Connections	LAN, 4x USB host, audio voltage measurement: screw terminals, current measurement: 3,5mm jack sockets
Verwendete Pins	3,3V, 5V, I2C1_SDA, I2C1_SCL, GPCLK0 GPIO17, GPIO18, GPIO27, GPIO22, GPIO23
Abmessungen (LxBxH)	85x56x60cm

Installation situation - Safety and independence

- Preservation of existing machine warranties
- Non-contact measurement with current transformers
- Galvanic isolation of the power supply and Data cables

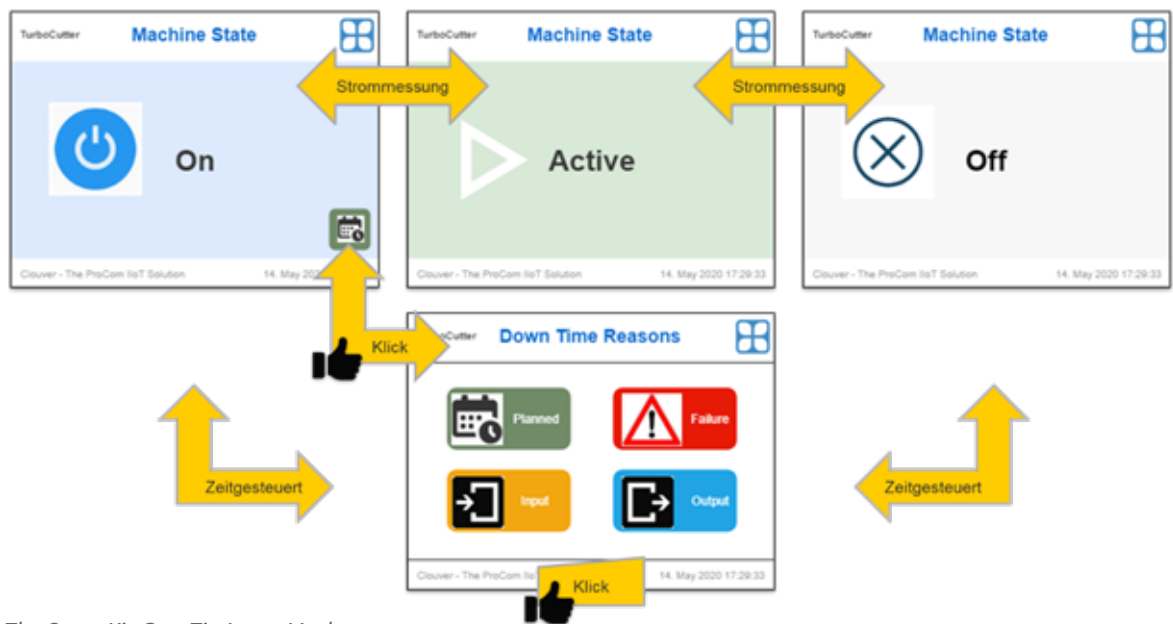


Mounting situation: With friendly permission of mbs GmbH - mechanical engineering and sawing technology, Alsdorf

- The installation can be done by the customer on site
- If required, you will receive telephone support during the installation

The One-Tip Input mask

The one-tip input allows you to gain information about your production process with minimally invasive use. If a standstill is detected by the gateway's smart software, the machine operator is shown a selection of reasons for a standstill. With a simple fingertip these are transferred to Clouver and can be evaluated by you.



The SmartKit One-Tip Input Mask

Operator Interface (HMI)

The fully-fledged panel PC with touch screen - ideally tailored to the SmartKit application. Alternatively, the one-touch input mask can be called up with any display device that has a WLAN interface.

Enclosure	Closed case with fanless design
CPU	Cortex Allwinner V40 (Quad Core)
Display	7" WSVGA TFT display (1024 × 600)
Touchscreen	projected capacitive
Working memory	1 GByte DDR3-SDRAM
Storage	8 GByte EMMC Flash
Interfaces	- LAN: 1 x 10/100/1000BaseT - WLAN: WI-FI a, b, g, n - I/O-Ports: 2 x USB 2.0, 2 x RS-232
Operating temperature	10 ~ 60 °C
Supply voltage	8 ~ 18 VDC
Mounting	VESA 75/100 metall stand for standalone and montage



The delivery options

	Smart Kit 1	Smart Kit 2	Smart Kit 3
Gateway	x	x	x
Smart Software	x	x	x
3 Stromzangen	x	x	x
The One-Tip Input mask	x	x	x
30min online training	x	x	x
Operator Interface (HMI)	-	x	x
2h-Online-OEE-Workshop & online consulting day	-	-	x
Package price	950€	1950€	3350€
1 year Clouver access with a standard Dashboard including Premium data package	240€	240€	240€
Clouver Business and Enterprise		on request	
Die flexible solution with any number of accesses and dashboards			
Integration of further sensors, light barriers, QR code scanners or similar		on request	

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 Release Letter SmartKit 1.0