

## STARTERKIT WCU 650

**Weidmüller Interface GmbH & Co. KG**

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With the fully encapsulated WCU 501 and WCU 650 logic modules, you monitor, control and regulate your processes - even under extreme environmental conditions. In this regard, the WCU series offers optimum dimensions, performance, robustness and user-friendliness. The graphic and intuitive Micon-L programming environment enables flexible switching of the analogue and digital inputs, plus the digital outputs too. The scope of both the software and the hardware can be expanded to suit customer requirements upon request. .

### General ordering data

Type	STARTERKIT WCU 650
Order No.	<a href="#">2007290000</a>
Version	graphically programmable logic module incl. programming adapter, CAN interface, Mounting foot
GTIN (EAN)	4050118392517
Qty.	1 pc(s).

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

Width	45 mm	Width (inches)	1.772 inch
Height	93 mm	Height (inches)	3.661 inch
Depth	30 mm	Depth (inches)	1.181 inch
Net weight	178 g		

### Temperatures

Humidity	5 - 95% rel. humidity	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...70 °C		

### General data

Air pressure	500... 1500 hPa	Current consumption	nominal 15 mA @ 32 V DC (dependent on the configuration)
Encapsulation compound	Polyurethane (PU)	Heat dissipation	< 2.5 W (at full load)
Input fuse	max. 8 A (external)	Interface	TTL 232
Operating voltage	+VDD: 7...32 V DC	Optical function display	LED
Potential isolation	no (common GND)	Protection degree	IP20
Reverse polarity protection	yes (combined with external fuse)	Security	Watchdog, Fail safe oscillator 16 MHz, Brown out detection, Power up timer
Type of connection	Plug-in spring-type terminals (0.25 - 1.5 mm <sup>2</sup> )	Wire connection method	PUSH IN

### Analogue inputs

Number	6	Pin assignment	IN 1, IN 2, IN 3, IN 4, IN 5, IN 6
Resolution	12-bit	Input voltage (U <sub>IN</sub> )	0...30 V DC
Input resistance (R <sub>IN</sub> )	> 11 kΩ	Precision	± 2% (0.25 V DC)

### Digital inputs

Number	4	Pin assignment	IN 7, IN 8, IN 9, IN 10
Input frequency (f <sub>IN</sub> )	≤ 1 kHz	Input voltage (U <sub>IN</sub> )	0...30 V DC
Input resistance (R <sub>IN</sub> )	> 30 kΩ	Pulse length	≥ 1 ms
Threshold voltage Off (U <sub>LOW</sub> )	≤ 2 V DC	Threshold voltage On (U <sub>HIGH</sub> )	≥ 4 V DC

### Digital outputs

Number	8	Pin assignment	OUT 1, OUT 2, OUT 3, OUT 4, OUT 5, OUT 6, OUT 7, OUT 8
Output voltage (U <sub>OUT</sub> )	+VDD - 0.45 V	Total output current (I <sub>TOT</sub> )	≤ 6 A
Output current per channel (I <sub>OUT</sub> )	≤ 1.5 A	Switching frequency (f <sub>OUT</sub> )	0... 100 Hz

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### PWM output

Number of	1	Pin assignment	OUT 9
Output voltage ( $U_{OUT}$ )	$\leq GND + 0,25 V$	Output current per channel ( $I_{OUT}$ )	$\leq 1 A$
Note	Can also be used as a digital output (ground-switching)	Switching frequency ( $f_{OUT}$ )	1...10 kHz
Type	Ground switching		

### CAN interface

Baud rate	100 kbit, 125 kbit, 250 kbit, 500 kbit	Bus system	ISO 11898-2, CAN 2.0B, CAN 2.0A
Identifier	11bit / 29 bit		

### EMC / shock / vibration

EMC interference resistance	EN 61000-6-2:2005	Shock resistance	min. 100 m/s <sup>2</sup> (10 g)
Vibration resistance	min. 50 m/s <sup>2</sup> (5 g) @ 10...150 Hz		

### Classifications

ETIM 6.0	EC001417	ETIM 7.0	EC001417
eClass 9.0	27-24-22-16	eClass 9.1	27-24-22-16
eClass 10.0	27-24-22-16		

### Approvals

Approvals



ROHS

Conform

### Downloads

Engineering Data	<a href="#">EPLAN, WSCAD</a>
Software	<a href="#">Programmiersoftware miCon-L</a>
User Documentation	<a href="#">Handbuch WCU-Serie Deutsch</a> <a href="#">Manual WCU-Series English</a>

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**Drawings**

