SIEMENS



M-Bus Signal Converter

WZC-P60

for plants with OZW10 (V3.0 or higher) as M-bus central unit

Signal converter for the conversion of RS-485, RS-232 or optical signals to M-bus signals.

Use	
	The M-bus signal converter is a component of the M-bus system. It serves for connecting an M-bus central unit with an RS-485 port to the M-bus. For the field of use of the M-bus system, refer to data sheet CE1N5361E.
Functions	
	 The WZC-P60 converts RS-485, RS-232 or optical signals to M-bus signals operates as a bus driver
Ordering	
	When ordering, please give type reference WZC-P60 .
Equipment combinations	
	In the M-bus system, the WZC-P60 is connected to the RS-485 port of the M-bus cen- tral unit. A maximum of 60 M-bus terminal units can be connected to the WZC-P60.

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Signal converter	bus signals.	As a signal converter, the WZC-P60 converts RS-485, RS-232 or optical signals to M- bus signals. The signals between input and output are galvanically separated by means of optocouplers.						
Bus driver		As a bus driver, the WZC-P60 supplies a maximum of 60 M-bus devices with the bus zero-signal current. The M-bus output of the signal converter is protected against short-circuits.						
Power supply	Power is sup	Power is supplied via an external power pack.						
LEDs	The M-bus signal converter indicates the type and direction of data flow by means of LEDs.							
	LED	Name Status Dat		Data flow				
	LED 1 (green)	ON	On	Bus voltage present, WZC-P60 master in idle state				
			Flashing	Bus voltage present, WZC-P60 master is sending				
	LED 2 (yel- low)	SLAVE	On	Slave is sending				
			Off	Slave in idle state				
	LED 3 (yel- low)	MAX	On	Bus zero-signal current exceeded				
	LED 4 (red)	SHORT	Flashes at 2 Hz	Overcurrent				

Mechanical design

The M-bus signal converter is of compact design.

The front carries the LEDs, the optical interface and a DB9 socket. At the top of the casing, there is a terminal block with three pairs of terminals for connecting the M-bus. At the bottom, there are the connection terminals for the power supply and the RS-485 and RS-232 port. The connection terminals can accept two wires (1.5 mm^2) .

The rear carries the facility for rail and wall mounting.

Engineering notes

The local regulations for electrical installations must be complied with. Power must be supplied by an isolation transformer which meets the SELV requirements for powering devices of safety class III. For the design and engineering of the M-bus system, refer to the Basic Documentation CE1P5361en.

Mounting notes

The rear of the casing has a facility for fitting the signal converter to a wall mounting rail TS35 (EN 50022). The facility can be removed and reversed to be used for wall mounting with the help of two screws.

Technical data

General data	Operating voltage DC	DC 2045 V				
	Operating voltage AC	AC 2030 V, 50/60 Hz				
	Power consumption	16 VA				
	Perm. ambient temperature					
	Transport and storage	–20+60 °C				
	Operation	055 °C				
	Weight	0.3 kg				
Norms and standards	CE conformity to					
	EMC directive	89/336/EEC				
	Low voltage directive	73/23/EEC				
	Electromagnetic compatibility					
	Immunity	EN 50082-2				
	Emissions	EN 50081-1				
Protection	Degree of protection	IP20 to EN 60529				
	Safety class	III to EN 60730				
M-bus data	Bus voltage Mark	3640.7 V				
	Bus voltage Space	2426.9 V				
	Bus zero-signal current	090 mA				
	Bus overcurrent shutdown	130160 mA				

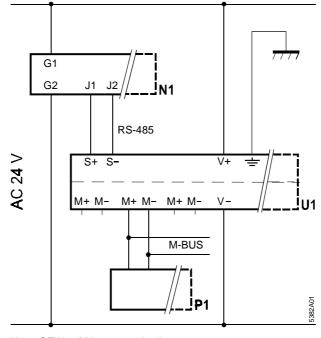
Connection terminals

					M+	М-	M+	M-	M+	М-
					M-Bus					
AC/DC 2	4 V				RS-485			RS-232		
V+ <u></u>	v-				S-	S+		RX	ТΧ	Т

Connection terminals used:

Terminal Port Device, signal, function M-bus M+ M-bus port to the M-bus terminal units M-RS-485 S+ RS-485 port for the M-bus central unit S-AC/DC 24 V V+ Connection for power supply AC 20...30 V or DC 20...45 V V---

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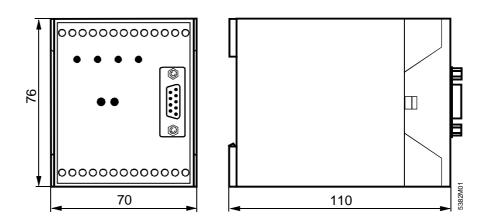


N1 OZW10 M-bus central unit

U1 WZC-P60 M-bus signal converter

P1 M-bus terminal unit

Dimensions



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Product data sheet WZC-P60

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