DR 60 PW (Phasing out)

M-Bus data centre / M-Bus remote display / M-Bus level converter

Your benefits

- Modular design:
  Can be used as data centre, remote display or level converter
- M-Bus data centre, remote display or level converter with integrated modem connection:
  Remote meter reading without access to the object
- Transparent operation:
  Unchanged transfer of read-out data to the communication device
- Several interfaces (RS232 and RS485) for PC communication:
  Greater distances (up to 1000 m via RS485) possible between M-Bus data centre, remote control or level converter and PC

Applications

- Remote supply and remote reading of M-Bus end devices
- On-site read-out of M-Bus meters via keypad and LCD

Properties

- M-Bus data centre, remote display or level converter for 60 M-Bus end devices with a standard load of 1,5 mA
- Can be used as level converter for RS232 and RS485
- Read-out via keypad and display (except for level converter) or RS232 interface
- Transfer rates: 300 to 9'600 baud
- M-Bus protocol according to EN 13757-3
- Galvanic separation
- Collision detection
- Echo cancellation
- Bit recovery (restoration of the bit times)
- Continuous short-circuit protection
- Automatic switch-off for excessive current flow
- Integrated mains adapter
- **Additional for M-Bus data centre DR 60**
- Periodic storage of meter data possible (interval of between 1 minute and 1 year)
- 512 KByte flash memory

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Technical Data

Mains adapter	
Input	230 V AC 50 Hz
Output	11 W

Housing	
Dimensions (WxHxD)	166 x 190 x 112 mm
Protection class	IP53 (sealed PG screw connections)
Material	PS
Colour	Light grey (similar to RAL 7035)
Weight	app. 1,3 kg

Ambient conditions	
Operating temperature	0 to + 45 °C
Storage temperature	-10 to + 60 °C
Humidity (non-condensing)	10 to 70 %

EMC data	
Emission	DIN EN 50081-1 EN 55022 class B EN 60555
Immunity	DIN EN 50082-2 EN 50104 EN 50204 EN 61000-4-4

Terminals

M-Bus	(+), (-)	3 terminal pairs
RS485	S+, S-	Terminal pair for RS485 interface
RS232	GND, TX, RX	Terminals for RS232 interface (PC)
230 V	N, L, E	Terminals for voltage supply 230 V AC

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M-Bus specifications

Execution		DR 60 / DR 60 FA / DR 60 PW		
Parameter		**min.**	**typ.**	**max.**
Max. no. of connectable devices (load unit 1,5 mA each)		-	-	60
Internal resistance	Ohm	-	-	15
Display alarm current	mA	90	100	110
Excessive current switch-off	mA	130	140	160
Bus voltage MARK (normal operating current)	V	38,5	39	39,5
Bus voltage SPACE (normal operating current)	V	12	12,5	13
Bit threshold end device > centre	mA	-	7	-
Collision threshold	mA	-	30	-

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