

DR 20 / DR 20 FA (Phasing out)

M-Bus data centre / M-Bus remote display

Your benefits

- Modular design:
  Can be used as data centre or remote display
- M-Bus data centre or remote display with integrated modem connection:
  Remote meter reading without access to the object
- Transparent operation:
  Unchanged transfer of read-out data to the communication device

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 or remote display for 20 M-Bus end devices with a standard load of 1,5 mA
- Read-out via RS232-PC or modem interface
- Transfer rates: 300 to 9’600 baud
- M-Bus protocol according to EN 13757-3
- Remote display with data filtering
- Remote control via 10-bit modem
- Echo cancellation
- Continuous short-circuit protection
- Automatic switch-off for excessive current flow
- DIN rail mounting
- 1 MByte flash memory

Options

- Periodic storage of meter data possible (interval from 1 minute to 1 year)

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Technical Data

Mains adapter	
supply	10..28VDC, 5W 13..28VAC, 9W

Housing	
Dimensions (WxHxD)	105 x 58 x 94 mm
Protection class	IP20
Material	Noryl
Colour	Light grey (similar to RAL 7035)
Weight	app. 0.23 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 ENV 50140 ENV 50204 EN 61000-4-4

Terminals

M-Bus	(+), (-)	3 terminal pairs
RS232 PC	9-pin	Terminal pair for RS485 interface
RS232 MODEM	9-pin	Terminals for RS232 interface (PC)
Grounding	Grounding	Terminals for grounding / GND
Power	V+, V-	Terminals for supply voltage (10...28 V DC, 13...27 V AC)

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M-Bus specifications

Execution		DR 20 / DR 20 FA		
Parameter		**min.**	**typ.**	**max.**
Max. no. of connectable devices (load unit 1,5 mA each)		-	-	20
Internal resistance	Ohm	-	-	100
Excessive current switch-off	mA	100	60	70
Bus voltage MARK (normal operating current)	V	29	30,5	32
Bus voltage SPACE (normal operating current)	V	12	12,5	13
Bit threshold end device > centre	mA	-	7	-

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