

multisio

System center

Horizontal pitch HP and housing dimensions (H x W x D in mm)

6HP (90 x 108 x 61)

Interface

**KBR eBus
KBR module bus
Display**



System center and expansion modules

Highlights

- Ideal for use in installation distributions
- Compact design
- Expandable on a modular basis
- Wide range of modules for digital and analog inputs/outputs and for temperature recording

An overall view of **technical details** can be found on pages 12/13.

multisio is a modular system for signal recording and processing. You can select from a wide range of functions depending on the input or output types.

This system is capable of recording the pulses from consumption meters, saving them as both continuous counter data and as standard-compliant load profiles. Alternatively, a digital input can also be used to record

the status (switching protocol) or operating hours. The operating hours are available as continuous counter data and charts. Compact expansion modules are available for a wide range of signal forms (0–20 mA, 4–20 mA, 0–10 V, PT1000, current, power, etc.). Five expansion modules, each with up to 25 signal inputs, can be connected to a central storage unit via ready-made RJ45 cables.

Expansion modules

Horizontal pitch HP and housing dimensions (H x W x D in mm)


2HP (90 x 36 x 61)
4HP (90 x 72 x 61)

Interface

KBR module bus



Input and output configuration

DEVICE TYPE	INPUTS	OUTPUTS	POSSIBLE FUNCTIONS
MEMORY MODULE			
 D6-1-ESBDS5-5DI6R01DO-US1	5 x digital	6 x relay 1 x DO 1 x display	→ Consumption recording → Status logging → Operating hours recording → Pulse summation → Relay switching → Analog values recording → Temperature recording → Heat quantity recording → Electric energy
DISPLAY			
multisio F96-TFT	–	–	→ Display
EXPANSION MODULES			
D2-4DI	4 x digital	–	→ Consumption recording → Status logging → Operating hours recording
D2-4AI	4 x analog (0–20 mA / 4–20 mA / 0–10 V)	–	→ Consumption recording
D2-4CI	4 x current (0–6 A)	–	→ Current recording
D2-4TI	4 x temperature (PT1000)	–	→ Temperature recording
multimes D4-0-BS	3 x voltage + current	–	→ Electric consumption recording



multisio Technical details



DEVICE TYPE		multisio system center [1] D6-1-ESB5DS-5DI6R01DO-US1 [2] F96-DS-TFT
DISPLAYS	Operation	Pushbutton for reset and scan mode
	Display	6 green LEDs: 5 x input status 1 x operating status [2] TFT
MEMORY	Main, data and program memory	2 MB RAM battery-buffered/ 256k EPROM
	Memory type	Ring buffer
	Long-term memory for max. 160 days min. 64 hours, depending on memory configuration	Load profile memory: Maximum 25 x 3840 entries 60 / 30 / 15 / 1 min Period duration for high and low tariff configurable via software
	Event memory	Maximum 4096 entries for recording tariff switching commands, mains failures, error messages, etc.
INPUTS	Digital input for floating contact, 50-compatible	5
	Analog input, 0–20 mA, 4–20 mA, 0–10 V	–
	Current input, 0–6 A	–
	Temperature input, PT 1000	–
OUTPUTS	Relay contact, floating (shared source), switching capacity 250 V AC, 2 A	6
INTERFACE	KBR eBus (RS485)	■
	KBR module bus (RS485)	■
	KBR display bus (RS485)	■
	Baud rate	38400
	Address assignment	Addressable up to address 9999, automatically via software, scan mode can be activated on the device
POWER SUPPLY	Operating voltage	85 – 265 V AC / DC, 50 / 60 Hz
	Power consumption	15 VA
MECHANICAL DATA	Housing Horizontal pitch and dimensions in mm (H x W x D)	6HP (90 x 108 x 61)
	Mounting type	Wall mounting on DIN rail, 7.5 mm deep, in accordance with DIN EN 50022, suitable for distribution board mounting
	Weight	Approx. 650 g

■ Standard version
– not available



multisio expansion module				multimes D4-0-BS	
D2-4DI	D2-4AI	D2-4CI	[1] D2-4TI-4040 [2] D2-4TI-2080 [3] D2-4TI-10105		
Pushbutton for reset and scan mode				Scan-sensor button	
5 LEDs: 4 x input status 1 x operating status	5 LEDs: 4 x input status 1 x operating status	1 LED: 1 x operating status	5 LEDs: 4 x input status 1 x operating status	1 LED: 1 x operating status	
–	–	–	–	16 KB unbuffered/28 k EPROM	
–	–	–	–	–	
–	–	–	–	–	
–	–	–	–	–	
4	–	–	–	–	
–	4	–	–	–	
–	–	4	–	3	
–	–	–	[1] 4 x –40 C° to +40 C° [2] 4 x –20 C° to +80 C° [3] 4 x –10 C° to +105 C°	–	
–	–	–	–	–	
–	–	–	–	–	
■	■	■	■	■	
–	–	–	–	–	
38400					
Automatic module bus addressing, scan mode can be activated on the device					
24 V DC, supply via module bus				via measuring voltage	
2 VA	1 VA	1.2 VA	1 VA	3.2 VA/1.3 W	
2HP (90 x 36 x 61)				4HP (90 x 72 x 61)	
Wall mounting on DIN rail, 7.5 mm deep, in accordance with DIN EN 50022, suitable for distribution board mounting					
Approx. 80 g	Approx. 80 g	Approx. 80 g	Approx. 80 g	Approx. 175 g	