

Display and Monitoring System

Centralised data collection with EB 2000 and EB 3000

- Application area: Wherever more than one sensor is required for measuring, controlling, monitoring or recording
- The EB system is not a new version of field bus, but a deliberate, well-priced concept that allows an easy handling of a high number of measuring points
- Easy assembly by means of polarity-free 2-wire system in bus, star or tree design
- Up to 240 sensors can be connected for a centralised data collection.
- The digital bus permits a bidirectional exchange of information.
- Bus length up to approx. 1000 m
- Connection is made polarity-free and short-circuit proof
- Sensor module supply via bus cable or externally
- Interface supply always via bus cable
- All bus functions are maintained even in case of sensor module failure.
- A fully automatic start-up installation via software is possible.
- Any new sensor module will be automatically detected.
- During operation sensor modules may be changed, removed or added.
- Scan time approx. 55 ms for each sensor module
- CRC check ensures very high transmission reliability.



Technical data

Type	EB 2000	EB 3000
Inputs	9	20 + 2 virtual channels
Display	4-digit, 7-segment LED, 13 mm high, red -1999...9999 digit dependent on connected sensor	
Channel display	9 LED	2-digit, 7-segment LED, 7 mm high, red
Status display	7 LED	11 LED
Relay output	2 2 x SPST, 10 A / 3 A / 250 VAC	5 4 x SPST, 5 A / 2 A / 250 VAC 1 x SPDT, 5 A / 2 A / 250 VAC
Serial interface	RS232	EB interface
Protection class	IP65	
Dimensions	96 x 48 x 100 mm	
Power supply	230 VAC, 50/60 Hz 115 VAC, 50/60 Hz (Optional) 24 VAC, 50/60 Hz (Optional) 12 VAC, 50/60 Hz (Optional)	
SIKA-Order-Code	EME8EB20000000	EME8EB30000000

Sensor modules for temperatur

Type EBT-IF1 (Standard, D = 6 mm, L = 100 mm)



Type EBT-IF2 (Standard, D = 6 mm, L = 100 mm, G½", without extension tube)



Type EBT-IF3 (Standard, D = 6 mm, L = 50 mm, G½", extension tube 100 mm)



Sensor type	Pt 1000 / 2-wire, potential-free
Temperature range	-30.0...100.0 °C Standard -70.0...400.0 °C with extension tube (option -200.0 °C...500.0 °C)
Accuracy	±0.2 % of reading + 0.2 °C
Cable	Silicone, length 1 m
Immersion tube material	St.st. 1.4571
SIKA-Order-Code	
Type EBT-IF1	EME8EBTIF10000
Type EBT-IF2	EME8EBTIF20000
Type EBT-IF3	EME8EBTIF30000

Application example of display and monitoring system

