

Wireless Control - per cellular phone or satellite

EBI-90



Technical Data

Type	EBI-90
Temperature range	-40°C to +70°C
Accuracy for temperature	±0.5°C
Temperature sensor	Semi-conductor
Measuring range for humidity	0 – 100%rH
Accuracy for humidity	± 2%rH
Maximum number of sensors	32
Power supply voltage	18 – 28 V DC or 230 V AC
Number of analog inputs	4 (0 to 5 V)
Number of analog outputs	4
Number of digital inputs	4
Number of digital outputs	4
Interface	RS 232
BUS length	65 m (can be extended with repeater)
Housing material	Waterproof IP 67
Weight	250 g
Dimensions	130 x 180 x 60 mm
Dual-Band GSM Module	900 / 1 800 MHz
Antenna connections	SMA/SMB for GSM/GPS antenna

EBI-90



Applications

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> Monitoring temperature, humidity, etc. via cellular telephone or satellite | <ul style="list-style-type: none"> Transport Storage Monitoring vehicle fleet | <ul style="list-style-type: none"> Remote control Position location |
|--|--|---|

Attributes

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Central worldwide monitoring Up to 32 probes can be connected | <ul style="list-style-type: none"> Waterproof housing Alarm and error recognition | <ul style="list-style-type: none"> GPS / GPRS Factory calibration certificate |
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Comments

ebro Electronic GmbH & Co. KG completes all necessary planning, installation and training. Feel free to request an offer!

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Description	Type	Part No.
Module for storing and transmitting data and alarm messages via SMS; transfer of control commands to distant transponders	EBI-90-Remote	1700-0200
Module for storing and transmitting data and alarm messages via SMS; transfer of control commands to distant transponders, position sensing of vehicles/trucks	EBI-90-Locate	1700-0205
Expansion for data transfer via GPRS (can be retrofitted)	EBI-90-GPRS	1700-0210
Satellite communication system	Inmarsat expansion	1700-0215
Temperature sensor 2.5 m *	EBI-90-T	1700-0220
Humidity sensor*	EBI-90-H	1700-0225
GSM antenna	EBI-90-ANT-1	1700-0235
Combined GSM/GPS disk-type antenna with 3 m connection cable	EBI-90-ANT-2	1700-0240
Plug-in power supply units 12V for operating at 220V AC	EBI-90-SNT	1700-0245
Cable to connect to 8-34V DC	EBI-90-SNT2	1700-0250
Serial interface cable for data transfer	EBI-KSY-RS 232	1700-0255
30 m data cable	EBI-90-DK	1700-0260
Connection block to connect 3 sensors	EBI-90-AB	1700-0265
M2M-commserver to support data transfer via SMS, GPRS, satellite	EBI-90-M2M	1700-0270
Software for display of stored data	EBI-90-SW	1700-0275

* Additional sensors on request

Wireless control – how does it work?

A measuring device with SIM card and GPS functionality (optional) is placed in the storage unit/truck/ship etc. to be monitored.

The measuring device will measure, record values for temperature, humidity and others, and transmit these via radio signal to the receiver – no matter whether the receiver is located in the same building or thousands of miles away.

On demand, radio signals can be forwarded to an ebro center for continuous monitoring. The user can choose between data transfer to

- **cellular phone**
- **PC, via a modem**
- **data queries via the Internet (thanks to the web-based software)**

Data will be transferred to any point in the world with cellular phone facilities.

For points without cellular phone facilities, the alternative is data transfer via satellite.

In the event of malfunction, an ebro center can trigger real time alarms, to allow taking corrective action immediately. The customer can choose to receive the alarm message

- **on his cellular phone**
- **via e-mail**
- **directly on-site (e.g. alarm siren)**

