ELGO ELECTRONIC

Series AZ17E-600

- **MEASURE**
- **INDICATE**
- **COMMUNICATE**

Battery-powered absolute position indicator with an external absolute sensor and 868 MHz radio transmission

AZ17E-600 Battery-powered absolute position indicator with radio module

General: AZ17E-600 [SLAVE] is equipped with a 868 MHz radio module (ISM-Band) for transmitting the actual values (display value). Accessories include a 868 MHz transceiver [MASTER] with an RS232 interface or optional as USB-stick, which is precisely calibrated to the AZ17E-600.

Specific features of AZ17E-600:
The system consists:
- an extensive parameterizable indicator
- an external magnetic sensor AZS (cable length can be up to 20 m)
- bi-directional data transmission through radio transmission between the indicator and the controller

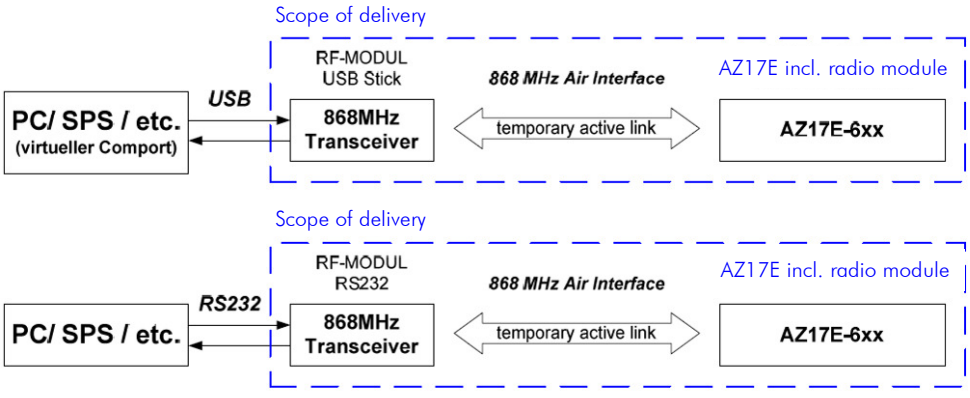
The new Snap-In mounting allows an easy installation in the defined panel cut out on the front side.

AZ17E-600 and the 868 MHz transceivers are equipped with integrated powerful ceramic antennas. External antennas are not necessary.

Features:

- 7-digit LCD-display, digit height 11 mm with sign, battery status indicator
- External absolute magnetic sensor AZS
- Setting of zero point only once; no further referencing necessary
- Permanent preservation of data and parameters
- Activated AUTO POWER OFF feature with adjustable switch-on time
- Adjustable mm or inch-mode
- Resolution up to 0.1 mm or 0.005 inch
- Adjustable reference value and 3 adjustable tool-offsets
- Adjustable multiplication factor
- Display with an integrated radio module 868 MHz

The bi-directional radio transmission serves as a cable replacement between MASTER and SLAVE:



Compatible to ELGO-measuring system AZ17E-600

AZS 8

Technical specifications:

Position indicator AZ17E-600	
LCD-display	7 decades (digit height 9 mm), with sign, Battery status and units
Units	mm or inch
Resolution	0.1 mm
Perspective	12 o'clock
Keyboard	Foil with softkeys
Power supply	1.5 V
Interface sensor	RS485
Current consumption sensor AZS at 1.5 V	– ca. 220 µA in sleep-mode – ca. 1mA during regular operation without radio communication – ca. 5mA during regular operation with continuous radio communications
Operating temperature	0... +50 °C
Storage temperature	-20... +80 ° C
Humidity	Non-condensing, max. 80 %
Operation altitude	Max. 2000 m over NN
Protection class (display)	IP 43
Dimensions	W x H x D = 96 x 48 x 24 mm
Panel cut out	W x H = 93 x 45 mm
Depth incl. sensor plug	Mounting depth: 57 mm (complete)/ 48 mm (when bending plug)
868MHz - Specifications	
Range	Up to 200 m (at intervisibility)
HF– data rate	38 kbps
Power output	Typ. 2 dBm e.i.r.p. (10 dBm at 50 Ω)
Input sensitivity	Up to –102 dBm (-110 dBm at 50 Ω)
Frequency range	863 - 868.6 MHz
Channel spacing	50 KHz
Modulation method	2-FSK, MSK
Antenna	Integrated ceramic antenna
Topology	Point to Point
Transmission	■ Bi-directional ■ Half-duplex ■ Incl. receipt ■ With CRC– checksum calculation ■ Five-times repeating of non-acknowledged radio telegrams
Addressing	2 Byte address space, max. 64000 different addresses
Conformity (Europe)	EN 300220-1, EN 301489-1/-3, EN 60950-1, EN 50371
Magnetic sensor AZS	
Pole distance	4 (8) mm
Measuring principle	Magnetic, absolute
Measuring type	Linear, not for rotative applications
Resolution	62.5 µm
Max. measuring length	8.0 m
Sensor cable length	0.1 m ... max. 20 m
Sensor cable	Drag-chain suitable/high- flexible/4-wire/ shielded
Interface	RS485
Housing	Plastic ABS
Protection class	IP 67
Humidity	Max. 80%, non-condensing
Mounting position	User-defined
Bending radius (cable)	Min. 25 mm
Distance (sensor/tape)	Max. 1.5 mm (without cover band)

Order :

For orders please use the following order code:

AZ17E - _ _ _ - _ - _ _ . _ - _
AAA - B - CC .C - D

A SN-Number

000 *ELGO* standard

600 integrated radio module 868 MHz

B Power supply

3 Cable outlet (Length 200 mm) for external battery case (1.5 V)

C Sensor cable

(specification necessary for sensor AZS only)

D Cable options

1 Sensor AZS pluggable via RJ45-female connecter (standard)

Example:

AZ17E - 600 - 3 - 01.0 - 1
AAA - B - CC. C - D

AZ17E with integrated radio module 868 MHz with 1.5 VDC battery supply incl. a cable (200 mm), a 1.0 m sensor cable and with a pluggable sensor AZS via RJ45-female connecter.

Your order:

AZ17E - _ _ _ - _ - _ _ . _ - _
AAA - B - CC .C - D

Further technical specifications can be found on www.elgo.de

Order refernce:

For orders please use the following oder code:

AZS - _ _ _ - _ - _ _ . _ - _
A AA - B - C C .C - D

A SN-Number
- 000 *ELGO* standard
- 001 First special version

B Sensor type
- 1 AZ-sensor-AZ8 (for max. 8 m measuring length)

C Sensor cable length

Available standard lengths: 1/2/3/5 m (other lengths for surcharge; max. 20 m)

D Cable options
- 1 Cable outlet with RJ45-plug (standard)

Example:

AZS - 0 0 0 - 1 - 0 1 . 0 - 1
A A A - B - C C . C - D

AZ-Sensor *ELGO* standard, with max. 8 m measuring length, sensor cable length of 1 m and a cable outlet with RJ45-plug (standard).

Your order:

AZS - _ _ _ - _ - _ _ . _ - _
A AA - B - C C .C - D

Accessories:

AZS 8	Magnetic sensor for AZ17E
Battery case 1 x C Mounting (710000131) or 1 x C Open (710000132)	Battery case with battery holder, battery and lug Battery holder, battery and lug
AB20-40-10-1-R-11	Magnetic tape for AZ17E

Accessories for option RF-module:

When ordering AZ17E-600 the data receiver must be ordered separately!

RF-module 868 MHz USB

Data from the position indicator is transferred to a computer via USB interface.

RF-module 868 MHz RS232

Data from the position indicator is transferred to computer via RS232 interface.

Additional accessories can be found on www.elgo.de

Doc.-No. 799000570
AZ17E-600-E_47-09

ELGO Electronic GmbH & Co. KG
Measure - Control - Position
Carl - Benz - Straße 1, D-78239 Rielasingen
Fon: +49 (7731) 9339-0, Fax: +49 (7731) 28803
Internet: www.elgo.de. Mail: info@elgo.de