

EM 300, EM 300LX

Electronic digital temperature indicators



Description

The range of Eliwell digital indicators represents an excellent measurement solution for all commercial and light industry applications.

EM300(LX) is a device that measures temperature values by means of PTC or NTC temperature probes. The precision of their digital conversion enables display of the measured values with a resolution of a tenth, when required.

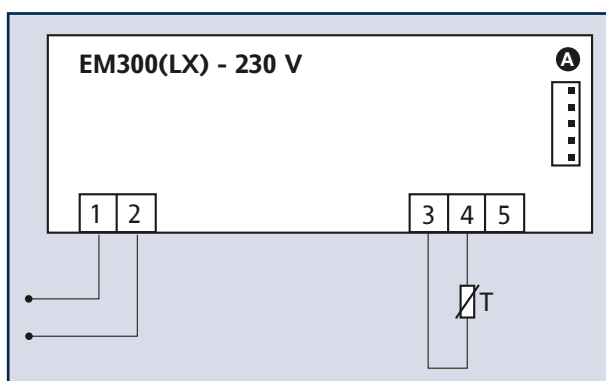
A special algorithm delivers a signal which activates a maximum and minimum alarms if the measured values exceed the threshold values specified by the user by means of the parameters available in the programming menu. The direct power supply at 230V also eliminates the need for an external transformer. Standard models have sizes of 32x74 mm with a depth of 30 mm, which ensures maximum installation flexibility and their adaptability to all kinds of systems.

EM 300LX:

models LX can also be connected to **TeleviSystem** and to the optional Copy Card for the quick programming of parameters when equipped with a TTL serial port.

Model	Analogue input	Range(°C)
EM 300(LX)	NTC	-50...110
EM 300(LX)	PTC	-55...150
EM 300(LX)	Pt100	-100...600
EM 300(LX)	tc-J-K	0...600 / 0...999

Wiring Diagram



Technical Data

Front panel protection: IP65.

Casing: plastic body in PC+ABS resin, UL94 V-0, polycarbonate window, keys in thermoplastic resin.

Dimensions: 74 x 32 mm (front part) and 30 mm depth (without terminals).

Mounting: panel-mounting with 71x 29 mm drilling template (+0.2/-0.1 mm).

Operating temperature: -5...55°C

Storage temperature: -30...85°C.

Operating and storage humidity: 10...90 %RH (non condensing).

Display: 3 digits and a half + sign.

Analogue input: 1 input **see table**

Measuring range: -999...1000

Precision: above 0.5% of the bottom scale +1 digit.

Resolution: 0.1°C.

Buzzer output: only for models equipped with this component.

Consumption: 3VA max.

Power supply: 230V.

EM 300LX Models:

Serial connection: TTL for the connection of:

- Copy Card
- **TeleviSystem**

Description of Wiring Diagram

Common:

- 1 - 2 Power supply
- 3 - 4 Temperature probe input
- T Temperature probe

EM 300LX:

- A TTL input for Copy Card and **TeleviSystem**



EM 300, EM 300LX

Electronic digital humidity indicators



Description

Eliwell digital indicators represent the best measurement solution for all commercial and light industry applications. EM300(LX) measures humidity values by means of a probe or 4...20mA current signals. Thanks to the accuracy of the digital conversion function, this indicator can also display the measured values with a resolution of one tenth, if required.

Its special algorithm enables the configuration of maximum and minimum alarms for values exceeding the thresholds specified by the user. Thresholds can be configured using the parameters in the main programming menu.

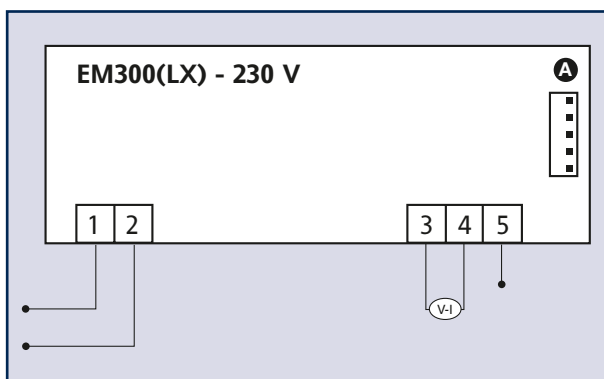
This indicator has a 230V DC power supply that eliminates the need of using an external transformer. Standard models have a size of 32x74 mm and depth of 30 mm, which ensures maximum installation flexibility and their adaptability to all kinds of systems.

EM 300LX:

LX indicators can also be connected to TelevisSystem and to the optional Copy Card to quickly configure programming parameters. This option requires the use of a TTL serial port.

Model	Analogue input
EM 300(LX)	EWHS 280/300/310
EM 300(LX)	0...1/5/10V; 0/4...20mA

Wiring Diagram



Technical Data

Front panel protection: IP65.

Casing: plastic body, PC+ABS resin, UL94 V-0, polycarbonate window, keys in thermoplastic resin.

Dimensions: 74 x 32 mm (front part) and 30 mm depth (without terminals).

Mounting: panel-mounting with 71x 29 mm drilling template (+0.2/-0.1 mm).

Operating temperature: -5...55°C

Storage temperature: -30...85°C

Operating and storage humidity: 10...90 %RH (non condensing)

Display: 3 digits and a half + sign.

Analogue input: 1 V-I input **see table**

Measuring range: -999...1000

Precision: above 0.5% of the bottom scale +1 digit

Resolution: 0.1 digit

Buzzer output: only for models equipped with this component.

Consumption: 3VA max.

Power supply: 230V

EM 300LX Models:

Serial connection: TTL for the connection of:

- Copy Card
- TelevisSystem

Description of Wiring Diagram

Common:

- 1 - 2 Power supply
- 3 Input "-" with current and voltage
- 4 Input "+" with current and voltage
- 5 Power supply 12V=

EM 300LX:

- A TTL input for Copy Card and TelevisSystem

