

The first sections show the data common to the EWTV instrument series (200, 240, 270 and 280). Then the sections regarding the features of each instrument follow.

SIGNALS ON FRONT PANEL

“POWER” Led: indicates the instrument is powered.

“ON-LINE” Led: when blinking indicates a serial communication in progress.

INSTALLATION

The instrument is designed for wall or DIN - rail mounting. The ambient temperature around the instrument should be kept between -5 and 60 °C.

Select a location which will not be subject to high humidity or condensation and allow some ventilation to provide cooling to the instrument.

ELECTRICAL WIRING

IMPORTANT !

Always work on the electrical connections only if the machine is switched off. Such jobs must be carried out by qualified personnel.

The instrument is equipped with a telephone type receptacle for connection with the EWTV 150 and two screw terminal blocks (2.5 mm²; one wire only per each terminal, for power contacts) for the remaining electrical wiring.

Make sure that the power supply corresponds with the rating shown on the instrument.

Refer to the instrument label for the applicable terminals to be used for the sensor cable. Separate the wiring of the input signals from those of the power supply.

TELEVIS SYSTEM COMPATIBILITY

This instrument is compatible with Televis software rel 2.3 or greater. In case its use with different software releases is required contact your supplier or Eliwell Customers' Service.

TECHNICAL DATA

Housing: 4-DIN modules plastic.

Protection: IP20.

Depth: 61 mm.

Mounting: on DIN rail (Omega 3).

Connections: telephone type receptacle for connection with the EWTV 150 and two screw terminal blocks (2.5 mm²; one wire only per each terminal for power contacts) for the remaining elec.wiring.
Data storage: non volatile EEPROM mem.
Operating temperature: -5...60 °C.
Storage temperature: -30...75 °C.
Power supply: see label on instrument.

Tab. 1 Parameter description table EWTV 200

PARAMETER	DESCRIPTION
P1P	It allows to select or not the presence of probe 1. y = present; n = not present.
dr1	display read-out (probe) 1. Type of visualisation probe 1. °C = degrees Celsius; °F = degrees Fahrenheit.
CA1	CALibration (probe) 1. To achieve the calibration insert a value equal to the error found, but of the opposite sign.
At1	Absolute or relative alarm values management for probe 1. It allows you to select the type of control of the alarms (parameters SE1, LA1 and HA1). Ab = the settings of the alarms correspond to the value, considered as “absolute”, of the parameters LA1 and HA1 (the parameter SE1, although visible and editable, is not anyhow taken into consideration); re = the settings of the alarms correspond to the values obtained considering the parameters LA1 and HA1 as “relative” to the value of the parameter SE1.
SE1	alarm SEt probe 1. Setting of the probe 1 alarm (see parameter At1).
LA1	Lower Alarm probe 1. Probe 1 minimum alarm (see parameter At1).
HA1	Higher Alarm probe 1. Probe 1 maximum alarm (see parameter At1).
tA1	temperature Alarm delay probe 1. Delay in signalling the alarm temperature probe 1.
P2P	It allows to select or not the presence of probe 2. y = present; n = not present.
dr2	display read-out (probe) 2. Type of visualisation probe 2. °C = degrees Celsius; °F = degrees Fahrenheit.
CA2	CALibration (probe) 2. To achieve the calibration insert a value equal to the error found, but of the opposite sign.
At2	Absolute or relative alarm values management for probe 2. It allows you to select the type of control of the alarms (parameters SE2, LA2 and HA2). Ab = the settings of the alarms correspond to the value, considered as “absolute”, of the parameters LA2 and HA2 (the parameter SE2, although visible and editable, is not anyhow taken into consideration); re = the settings of the alarms correspond to the values obtained considering the parameters LA2 and HA2 as “relative” to the value of the parameter SE2.
SE2	alarm SEt probe 2. Setting of the probe 2 alarm (see parameter At2).
LA2	Lower Alarm probe 2. Probe 2 minimum alarm (see parameter At2).
HA2	Higher Alarm probe 2. Probe 2 maximum alarm (see parameter At2).
tA2	temperature Alarm delay probe 2. Delay in signalling the alarm temperature probe 2.
P3P	Probe 3 Presence. It allows to select or not the presence of probe 3. y = present; n = not present.
dr3	display read-out (probe) 3. Type of visualisation probe 3. °C = degrees Celsius; °F = degrees Fahrenheit.
CA3	CALibration (probe) 3. To achieve the calibration insert a value equal to the error found, but of the opposite sign.
At3	Absolute or relative alarm values management for probe 3. It allows you to select the type of control of the alarms (parameters SE3, LA3 and HA3). Ab = the settings of the alarms correspond to the value, considered as “absolute”, of the parameters LA3 and HA3 (the parameter SE3, although visible and editable, is not anyhow taken into consideration); re = the settings of the alarms correspond to the values obtained considering the parameters LA3 and HA3 as “relative” to the value of the parameter SE3.
SE3	alarm SEt probe 3. Setting of the probe 3 alarm (see parameter At3).
LA3	Lower Alarm probe 3. Probe 3 minimum alarm (see parameter At3).
HA3	Higher Alarm probe 3. Probe 3 maximum alarm (see parameter At3).
tA3	temperature Alarm delay probe 3. Delay in signalling the alarm temperature probe 3.
AFd	Alarm (Fan) differential. The allowable temperature swing between ON and OFF of the alarms.
PAO	Power-on Alarm Override. Time delay after start-up during which the alarm will not activate.
dPP	Decimal Point Presence This is used for enabling viewing/setting of values with decimal figures; if dPP = y, the values can be viewed/set with decimal figures; if dPP = n, the values can be viewed/set with whole figures;
SLP	Presence of LED with a “-” sign. Sign LED Presence This parameter is used to modify the data viewing mode on the remote keyboard display, if viewing requires 4 figures if SLP = y, the “-” sign becomes “external” with respect to the display of EWTV 150, thus enabling setting/viewing of values up to -999, or -99.9 (N.B. the values are purely indicative); if SLP = n, the “-” sign becomes “internal” with respect to the display of EWTV 150, thus enabling setting/viewing of values up to -99, or -9.9 (N.B. the values are purely indicative); If the “-” sign is declared internal with respect to the display, viewing is restricted to whole numbers only in the case of negative values. NOTE: remote keyboard EWTV 150 DOES NOT manage the “-” sign if it is external with respect to the display and, therefore, the parameter can be correctly used only by the RVD/Program function of the Televis supervision system;
dEA	dEvice Address. To select the address label of the device in relation to the supervisory system.
FAA	FAMily Address. To select the family label of the device in relation to the supervisory system.
rEL	rELease firmware. Indicator of the release of the firmware, not changeable by the User.
tAb	tAble of parameters. This shows the configuration of the parameters as set in the factory; can not be modified (for factory identification and diagnostic purposes only).

GENERAL DESCRIPTION EWTV 200

The EWTV 200 is the module to which, in a Televis 200 system, the sensors, used for temperature data acquisition, are connected. Each module can accommodate up to three (3) PTC sensors which can be extended up to 50 meters using standard 2-lead wire; in the event that not all 3 sensors are used on a particular module, the instrument is to be programmed accordingly - parameters P1P, P2P and P3P - so that false alarms will not occur. Of course, the number of modules connected will effect the read-out response time. By means of the EWTV 150 configuration module, each EWTV 200 module will be assigned two "identification codes" i.e. (1) "family" and (2) "device"; these codes enable the Televis system to recognize each individual module. Beside this, with the configuration module, the parameters of recognition of each probe, the unit of measurement of the display and the whole management of the alarms can be programmed.

PARAMETERS' PROGRAMMING EWTV 200

To get access to the programming of the parameters it is necessary to connect the EWTV 200 with the EWTV 150 configuration module.

On the display you will see the value of the temperature of probe number 1. To see the value of probes 2 and 3, press and release the "prg" key and, afterwards, the "up" key. To enter into the programming of the parameters it is necessary to press the "prg" key for a few seconds; at this point the first parameter will be displayed. With the "up" and "down" keys, it is possible to run through the other available parameters.

For a description of the parameters and details of their values, please refer to tables 1 and 5.

TECHNICAL DATA EWTV 200

Inputs: three (3) PTC semiconductor probes.

Serial connection: double RS-485 serial port for connection to the Televis system. Power supply: see label on instrument.

GENERAL DESCRIPTION EWTV 240

The EWTV 240 is a module to which current inputs coming from humidity probes (EWS 28/31, EWS 280, 300/310), pressure transducers (EWPA 007/030), temperature probes with current output etc. can be connected (see also EWCC 100 - industrial standards transmitter). The module is equipped with three 0...20 mA or 4...20 mA inputs; in the event that not all 3 sensors are used on a particular module, the instrument is to be programmed accordingly - parameters P1P, P2P and P3P - so that false alarms will not occur. Through the Televis system software it is possible to attribute to the inputs a unit of measure (°C, °F, %R.H., Bar, Psi, etc.) and the values to be visualized in correspondence to the

Tab. 2 Parameter description table EWTV 240

PARAMETER	DESCRIPTION
P1P	Probe 1 Presence. It allows to select or not the presence of probe 1. y = present; n = not present.
dr1	display read-out (probe) 1. Type of visualisation probe 1. °C = degrees Celsius; °F = degrees Fahrenheit.
CA1	CAlibration (probe) 1. To achieve the calibration insert a value equal to the error found, but of the opposite sign.
Lc1	Lower current input probe 1. Value to be displayed corresponding to the minimum input (0/4 mA) of probe 1.
Hc1	Higher current input probe 1. Value to be displayed corresponding to the maximum input (20 mA) of probe 1.
At1	Absolute or relative alarm values management for probe 1. It allows you to select the type of control of the alarms (parameters "SE1", "LA1" and "HA1"). Ab = the settings of the alarms correspond to the value, considered as "absolute", of the parameters "LA1" and "HA1" (the parameter "SE1", although visible and editable, is not anyhow taken into consideration); re = the settings of the alarms correspond to the values obtained considering the parameters "LA1" and "HA1" as "relative" to the value of the parameter "SE1".
SE1	alarm SEt probe 1. Setting of the probe 1 alarm (see parameter "At1").
LA1	Lower Alarm probe 1. Probe 1 minimum alarm (see parameter "At1").
HA1	Higher Alarm probe 1. Probe 1 maximum alarm (see parameter "At1").
tA1	temperature Alarm delay probe 1. Delay in signalling the alarm temperature probe 1.
P2P	Probe 2 Presence. It allows to select or not the presence of probe 2. y = present; n = not present.
dr2	display read-out (probe) 2. Type of visualisation probe 2. °C = degrees Celsius; °F = degrees Fahrenheit.
CA2	CAlibration (probe) 2. To achieve the calibration insert a value equal to the error found, but of the opposite sign.
Lc2	Lower current input probe 2. Value to be displayed corresponding to the minimum input (0/4 mA) of probe 2.
Hc2	Higher current input probe 2. Value to be displayed corresponding to the maximum input (20 mA) of probe 2.
At2	Absolute or relative alarm values management for probe 2. It allows you to select the type of control of the alarms (parameters "SE2", "LA2" and "HA2"). Ab = the settings of the alarms correspond to the value, considered as "absolute", of the parameters "LA2" and "HA2" (the parameter "SE2", although visible and editable, is not anyhow taken into consideration); re = the settings of the alarms correspond to the values obtained considering the parameters "LA2" and "HA2" as "relative" to the value of the parameter "SE2".
SE2	alarm SEt probe 2. Setting of the probe 2 alarm (see parameter "At2").
LA2	Lower Alarm probe 2. Probe 2 minimum alarm (see parameter "At2").
HA2	Higher Alarm probe 2. Probe 2 maximum alarm (see parameter "At2").
tA2	temperature Alarm delay probe 2. Delay in signalling the alarm temperature probe 2.
P3P	Probe 3 Presence. It allows to select or not the presence of probe 3. y = present; n = not present.
dr3	display read-out (probe) 3. Type of visualisation probe 3. °C = degrees Celsius; °F = degrees Fahrenheit.
CA3	CAlibration (probe) 3. To achieve the calibration insert a value equal to the error found, but of the opposite sign.
Lc3	Lower current input probe 3. Value to be displayed corresponding to the minimum input (0/4 mA) of probe 3.
Hc3	Higher current input probe 3. Value to be displayed corresponding to the maximum input (20 mA) of probe 3.
At3	Absolute or relative alarm values management for probe 3. It allows you to select the type of control of the alarms (parameters "SE3", "LA3" and "HA3"). Ab = the settings of the alarms correspond to the value, considered as "absolute", of the parameters "LA3" and "HA3" (the parameter "SE3", although visible and editable, is not anyhow taken into consideration); re = the settings of the alarms correspond to the values obtained considering the parameters "LA3" and "HA3" as "relative" to the value of the parameter "SE3".
SE3	alarm SEt probe 3. Setting of the probe 3 alarm (see parameter "At3").
LA3	Lower Alarm probe 3. Probe 3 minimum alarm (see parameter "At3").
HA3	Higher Alarm probe 3. Probe 3 maximum alarm (see parameter "At3").
tA3	temperature Alarm delay probe 3. Delay in signalling the alarm temperature probe 3.
AFd	Alarm (Fan) differential. The allowable temperature swing between "ON" and "OFF" of the alarms.
PAO	Power-on Alarm Override. Time delay after start-up during which the alarm will not activate.
dPP	Decimal Point Presence This is used for enabling viewing/setting of values with decimal figures; if dPP = y, the values can be viewed/set with decimal figures; if dPP = n, the values can be viewed/set with whole figures;
SLP	Presence of LED with a "-" sign. Sign LED Presence This parameter is used to modify the data viewing mode on the remote keyboard display, if viewing requires 4 figures if SLP = y, the "-" sign becomes "external" with respect to the display of EWTV 150, thus enabling setting/viewing of values up to -999, or -99.9 (N.B. the values are purely indicative); if SLP = n, the "-" sign becomes "internal" with respect to the display of EWTV 150, thus enabling setting/viewing of values up to -99, or -9.9 (N.B. the values are purely indicative); If the "-" sign is declared internal with respect to the display, viewing is restricted to whole numbers only in the case of negative values. NOTE: remote keyboard EWTV 150 DOES NOT manage the "-" sign if it is external with respect to the display and, therefore, the parameter can be correctly used only by the RVD/Program function of the Televis supervision system;
dEA	dEvice Address. To select the address label of the device in relation to the supervisory system.
FAA	FAMILY Address. To select the family label of the device in relation to the supervisory system.
rEL	rELease firmware. Indicator of the release of the firmware, not changeable by the User.
tAb	tAble of parameters. This shows the configuration of the parameters as set in the factory; can not be modified (for factory identification and diagnostic purposes only).

minimum and maximum current inputs. By means of the EWTV 150 configuration module, each EWTV 240 module will be assigned two “identification codes”, i.e. (1) “family” and (2) “device”; these codes enable the Televis system to recognize each individual module.

Beside this, with the configuration module, the parameters of recognition of each probe, the unit of measurement of the display and the whole management of the alarms can be programmed.

PARAMETERS' PROGRAMMING EWTV 240

To get access to the programming of the parameters it is necessary to connect the EWTV 240 with the EWTV 150 configuration module.

On the display you will see the value of the temperature of probe number 1. To see the value of probes 2 and 3, press and release the “prg” key and, afterwards, the “up” key. To enter into the programming of the parameters it is necessary to press the “prg” key for a few seconds; at this point the first parameter will be displayed. With the “up” and “down” keys, it is possible to run through the other available parameters.

For a description of the parameters and details of their values, please refer to tables 2 and 6.

TECHNICAL DATA EWTV 240

Inputs: three (3) 0...20 mA or 4...20 mA ($R_i = 41 \Omega$).

Serial connection: double RS-485 serial port for connection to the Televis system. Power supply: see label on instrument.

GENERAL DESCRIPTION EWTV 270

The EWTV 270 module is an interface between the Televis system and voltage logical inputs to control the state of different users (such as compressors, room lights, anti-mist or defrost resistors, etc.) The module is provided with three inputs for 220 V~ (other voltages on request). Through the Televis software a name can be assigned to both “states” of each input of the module, thus allowing an easy check either on video or printout. Through the configuration module EWTV 150, two identification codes shall be assigned to each EWTV 270 module: the family it belongs to and the device inside the same family.

These codes allow recognition of each module within the Televis system. The configuration module is also used to program the recognition parameters for each input and alarm management.

PARAMETERS' PROGRAMMING EWTV 270

To enter parameters' programming the configuration module EWTV 150 shall be connected to EWTV 270. The display will show the value for input N. 1. To view the value for inputs 2 and 3 press and release “prg” and then “up”.

EWTV SERIES

Tab. 3 Parameter description table EWTV 270

PARAMETER	DESCRIPTION
in1	input 1 (presence). Allows to set input 1 as active or inactive. y = active; n = inactive.
in2	input 2 (presence). Allows to set input 2 as active or inactive. y = active; n = inactive.
in3	input 3 (presence). Allows to set input 3 as active or inactive. y = active; n = inactive.
i1P	input 1 Polarity. Allows to define polarity for input 1. di = direct; in = inverse.
i2P	input 2 Polarity. Allows to define polarity for input 2. di = direct; in = inverse.
i3P	input 3 Polarity. Allows to define polarity for input 3. di = direct; in = inverse.
i1d	input 1 digital (alarm). Allows to set whether alarm digital input 1 shall be taken on the edge or on the level. Ed = Edge; LE = Level.
i2d	input 2 digital (alarm). Allows to set whether alarm digital input 2 shall be taken on the edge or on the level. Ed = Edge; LE = Level.
i3d	input 3 digital (alarm). Allows to set whether alarm digital input 3 shall be taken on the edge or on the level. Ed = Edge; LE = Level.
i1A	input 1 (digital) Alarm. Allows to set whether digital input 1 is enabled as external alarm 1. y = enabled; n = disabled.
i2A	input 2 (digital) Alarm. Allows to set whether digital input 2 is enabled as external alarm 2. y = enabled; n = disabled.
i3A	input 3 (digital) Alarm. Allows to set whether digital input 3 is enabled as external alarm 3. y = enabled; n = disabled.
tt1	type time 1. Defines the measurement unit for parameter “ti1”. SEC = seconds; Pri = minutes.
ti1	time (delay alarm) input 1. Delay time before signalling alarm from digital input 1.
tt2	type time 2. Defines the measurement unit for parameter “ti2”. SEC = seconds; Pri = minutes.
ti2	time (delay alarm) input 2. Delay time before signalling alarm from digital input 2.
tt3	type time 3. Defines the meas. unit for parameter “ti3”. SEC = seconds; Pri = minutes.
ti3	time (delay alarm) input 3. Delay time before signalling alarm from digital input 3.
En1	Event number 1. Indicates how many times shall digital input 1 be activated to generate the external alarm (when parameter “i1A” is set to “y”), in the time interval defined by parameter “Ei1”.
Ei1	Events interval (time) 1. Indicates the time interval in which digital input 1 shall be activated for a number of times (see parameter “En1”).
En2	Event number 2. Indicates how many times shall digital input 2 be activated to generate the external alarm (when parameter “i2A” is set to “y”), in the time interval defined by parameter “Ei2”.
Ei2	Events interval (time) 2. Indicates the time interval in which digital input 2 shall be activated for a number of times (see parameter “En2”).
En3	Event number 3. Indicates how many times shall digital input 3 be activated to generate the external alarm (when parameter “i3A” is set to “y”), in the time interval defined by parameter “Ei3”.
Ei3	Events interval (time) 3. Indicates the time interval in which digital input 3 shall be activated for a number of times (see parameter “En3”).
dEA	dEvice Address. Allows the selection of the device address within a remote control network.
FAA	FAmily Address. Allows the selection of the device family within the remote control network.
rEL	rELease firmware. Shows the firmware release; cannot be modified by the user.
tAb	tAbLe of parameters. Configuration index for factory set parameters; cannot be modified by the user.

To enter parameters programming hold the “prg” key pressed for some seconds - the first parameters will be displayed. Use the “up” and “down” keys to skip to the other available parameters.

For a description of the parameters and details of their values, please refer to tables 3 and 7.

TECHNICAL DATA EWTV 270

Inputs: three (3) opto-isolated voltage 220 V~.

Serial connection: double RS-485 serial port for the connection to the Televis system.

Power supply: see label on instrument.

GENERAL DESCRIPTION EWTV 280

The EWTV 280 module is a remote repeater for alarm signals in Televis systems. These signals may be generated by “system” alarms (too high or too low temperature, power failure, faulty probe, etc.) which occur in instruments or other modules in the network and are “sent” to EWTV 280 through the Televis system software which, for this purpose, can relate the relay output to an instrument or a group of instruments.

EWTV 280 provides a second relay which is triggered in case of “no link” alarm (no communication on serial line from an instrument or module).

In case of line interruption due to cable breakdown or PC fault, an additional security feature in EWTV 280 activates both relays for alarm repetition.

This operation is based on a timer con-

trolled by parameter “CLC” (see paragraph “PARAMETERS’ DESCRIPTION”) and allows continual checking on line integrity, provided that the module is installed as last element in the serial line.

In Televis systems up to 15 EWTV 280 modules can be connected. Output is made up of two N.C. relays 8(3)A 250V~. Relay contacts are N.O. with instrument ON and no alarms running. They are N.C. with instrument OFF or when an alarm belongs. It is available, on request, an instrument with reverse contacts when instrument is ON.

Two “identification codes” (belonging family and device within the same family) shall be assigned to each EWTV 280 module through the EWTV 150 configuration module. Such codes allow the module recognition within the Televis system.

PARAMETERS’ PROGRAMMING EWTV 280

To enter parameters programming the configuration module EWTV 150 shall be connected to EWTV 280. Once the connection is established hold the “prg” key pressed for some seconds; the first parameter ‘s label shall be displayed.

Use the “up” and “down” keys to skip to the other available parameters. To view the value of the parameter marked by the label press “prg”. To change it use the “up” and “down” keys. For a description of the parameters and details of their values, please refer to tables 4 and 8.

TECHNICAL DATA EWTV 280

Outputs: two (2) SPST relays 8(3)A 250V~ for the remote repetition of two alarm signals foreseen by the Televis system: the “measured value beyond the lower and higher set values” of one of the system probes and the “no link” alarm (module not responding to the system).

Serial connection: double RS-485 serial port for connection to the Televis system. Power supply: see label on instrument.

Tab. 4 Parameter description table EWTV 280

PARAMETER	DESCRIPTION
odo	output delay (at) on. Delay time in minutes before relays are activated at instrument's startup.
CLC	Communication Line Closure. Once this time (in minutes) is expired without any serial communication between the system and the EWTV 280 module, both the outputs for remote alarm signalling in the module shall be activated. No activation will take place in case the module had previously been set to “OFF” (see Televis 200 user's manual) or if it is set to “0”.
dEA	dEvice Address Allows the selection of the device address within the remote control network.
FAA	FAMily Address. Allows the selection of the device family within the remote control network.
rEL	rELease firmware. Shows the firmware release; cannot be modified by the user.
tAb	tAb le of parameters. Configuration index for factory set parameters; cannot be modified by the user.

PERMITTED USE

For reasons of safety, the control device must be installed and used according to the supplied instructions and, in particular, under normal use conditions, dangerously live parts must not be accessible. The device must be protected against water and dust according to the specific application, and must also be accessible only by using a tool. The device is suitable for integrating into a household appliance and/or similar appliance. The appliance is classified as follows in terms of the relevant reference standards:

- As concerns its construction, as an automatic, electronic controlling device (this applies to the EWTV280, whereas the other EWTVs are measuring devices) to be incorporated by independent installation
 - According to automatic operation characteristics, as a control device (EWTV280) with type 1 action in relation to manufacturing tolerances and drift;
 - As a class 2 device in connection with protection against electrical shocks (with reference only to parts accessible during normal use; exclusively the front section);-
 - As a class A device in connection with the software class and structure.
- In this case, “front section” means the top cover only; the terminal boards should be protected (!)

USE NOT PERMITTED

Any other use than those is forbidden. Please note that the effected control (a relay in the EWTV280, a control associated with the read signals for the other EWTV modules) is of the functional type and can fail. Therefore, any protective devices specified by the product regulations or dictated by common sense according to clear safety needs, must be effected outside the instrument.

LIABILITY AND RESIDUAL RISKS

Invensys Controls Italy S.r.L. shall not be liable for any damages deriving from:

- installation/use other than that prescribed and, in particular, that which does not comply with safety standards anticipated by regulations and/or those given herein
- use on boards which do not guarantee adequate protection against electric shock, water or dust under the conditions of assembly applied;

- use on boards which allow access to dangerous parts without the use of tools;
- tampering with and/or alteration of the products;
- installation/use on boards not complying with the standards and provisions of current legislation.

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Tab. 5 Parameter values table EWTV 200

PARAMETER	DESCRIPTION	RANGE	DEFAULT	U.M.
P1P	Probe 1 Presence	n / y	y	flag
dr1	display read-out (probe) 1	°C / °F	°C	flag
CA1	CAlibration (probe) 1	-999...999	0	°C / °F
At1	Alarm type 1	Ab / re	re	flag
SE1	SEt (alarm probe) 1	-999...999	0	°C / °F
LA1	Lower Alarm (probe) 1	-999...999	-50	°C / °F
HA1	Higher Alarm (probe) 1	-999...999	50	°C / °F
tA1	temperature Alarm delay 1	0...250	0	min
P2P	Probe 2 Presence	n / y	y	flag
dr2	display read-out (probe) 2	°C / °F	°C	flag
CA2	CAlibration (probe) 2	-999...999	0	°C / °F
At2	Alarm type 2	Ab / re	re	flag
SE2	SEt (alarm probe) 2	-999...999	0	°C / °F
LA2	Lower Alarm (probe) 2	-999...999	-50	°C / °F
HA2	Higher Alarm (probe) 2	-999...999	50	°C / °F
tA2	temperature Alarm delay 2	0...250	0	min
P3P	Probe 3 Presence	n / y	y	flag
dr3	display read-out (probe) 3	°C / °F	°C	flag
CA3	CAlibration (probe) 3	-999...999	0	°C / °F
At3	Alarm type 3	Ab / re	re	flag
SE3	SEt (alarm probe) 3	-999...999	0	°C / °F
LA3	Lower Alarm (probe) 3	-999...999	-50	°C / °F
HA3	Higher Alarm (probe) 3	-999...999	50	°C / °F
tA3	temperature Alarm delay 3	0...250	0	min
AFd	Alarm (Fan) differential	1...15	2	°C / °F
PAO	Power-on Alarm Override	0...999	120	min
dPP	decimal Point Presence	n / y	n	flag
SLP	Signal Led Presence	n / y	n	flag
dEA	dEvice Address	0...14	0	num
FAA	FAMily Address	0...14	0	num
rEL	rElease firmware	/	/	/
tAb	tAbles of parameters	/	/	/

Tab. 6 Parameter values table EWTV 240

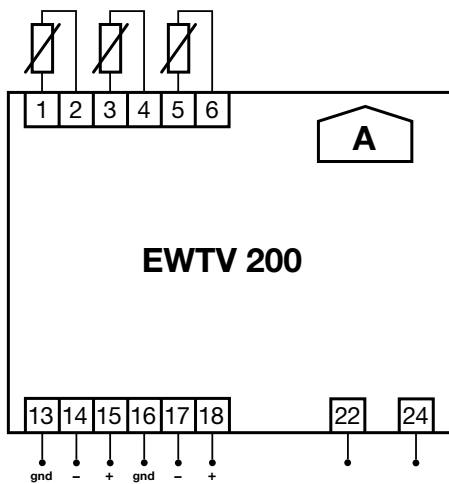
PARAMETER	DESCRIPTION	RANGE	DEFAULT	U.M.
P1P	Probe 1 Presence	n / y	y	flag
dr1	display read-out (probe) 1	°C / °F	°C	flag
CA1	CAlibration (probe) 1	-999...999	0	°C / °F
Lc1	Lower current input probe 1	-999...999	-10	°C / °F
Hc1	Higher current input probe 1	-999...999	70	°C / °F
At1	Alarm type 1	Ab / re	re	flag
SE1	SEt (alarm probe) 1	-999...999	0	°C / °F
LA1	Lower Alarm (probe) 1	-999...999	-50	°C / °F
HA1	Higher Alarm (probe) 1	-999...999	50	°C / °F
tA1	temperature Alarm delay 1	0...250	0	min
P2P	Probe 2 Presence	n / y	y	flag
dr2	display read-out (probe) 2	°C / °F	°C	flag
CA2	CAlibration (probe) 2	-999...999	0	°C / °F
Lc2	Lower current input probe 2	-999...999	-10	°C / °F
Hc2	Higher current input probe 2	-999...999	70	°C / °F
At2	Alarm type 2	Ab / re	re	flag
SE2	SEt (alarm probe) 2	-999...999	0	°C / °F
LA2	Lower Alarm (probe) 2	-999...999	-50	°C / °F
HA2	Higher Alarm (probe) 2	-999...999	50	°C / °F
tA2	temperature Alarm delay 2	0...250	0	min
P3P	Probe 3 Presence	n / y	y	flag
dr3	display read-out (probe) 3	°C / °F	°C	flag
CA3	CAlibration (probe) 3	-999...999	0	°C / °F
Lc3	Lower current input probe 3	-999...999	re	°C / °F
Hc3	Higher current input probe 3	-999...999	0	°C / °F
At3	Alarm type 3	Ab / re	-10	flag
SE3	SEt (alarm probe) 3	-999...999	70	°C / °F
LA3	Lower Alarm (probe) 3	-999...999	-50	°C / °F
HA3	Higher Alarm (probe) 3	-999...999	50	°C / °F
tA3	temperature Alarm delay 3	0...250	0	min
AFd	Alarm (Fan) differential	1...15	2	°C / °F
PAO	Power-on Alarm Override	0...999	120	min
dPP	decimal Point Presence	n / y	n	flag
SLP	Signal Led Presence	n / y	n	flag
dEA	dEvice Address	0...14	0	num
FAA	FAMily Address	0...14	0	num
rEL	rElease firmware	/	/	/
tAb	tAbles of parameters	/	/	/

Tab. 7 Parameter values table EWTV 270

PARAMETER	DESCRIPTION	RANGE	DEFAULT	U.M.
in1	input 1 (presence)	n / y	y	flag
in2	input 2 (presence)	n / y	y	flag
in3	input 3 (presence)	n / y	y	flag
i1P	input 1 Polarity	di / in	di	flag
i2P	input 2 Polarity	di / in	di	flag
i3P	input 3 Polarity	di / in	di	flag
i1d	input 1 digital (alarm)	Ed / LE	LE	flag
i2d	input 2 digital (alarm)	Ed / LE	LE	flag
i3d	input 3 digital (alarm)	Ed / LE	LE	flag
i1A	input 1 (digital) Alarm	n / y	y	flag
i2A	input 2 (digital) Alarm	n / y	y	flag
i3A	input 3 (digital) Alarm	n / y	y	flag
tt1	type time 1	SEC / Pri	SEC	flag
ti1	time (delay alarm) input 1	0...250	0	sec/min
tt2	type time 2	SEC / Pri	SEC	flag
ti2	time (delay alarm) input 2	0...250	0	sec/min
tt3	type time 3	SEC / Pri	SEC	flag
ti3	time (delay alarm) input 3	0...250	0	sec/min
En1	Events number 1	0...15	0	num
Ei1	Events interval (time) 1	0...200	0	min
En2	Events number 2	0...15	0	num
Ei2	Events interval (time) 2	0...200	0	min
En3	Events number 3	0...15	0	num
Ei3	Events interval (time) 3	0...200	0	min
dEA	dEvice Address	0...14	0	num
FAA	FAMily Address	0...14	0	num
rEL	rElease firmware	/	/	/
tAb	tAbles of parameters	/	/	/

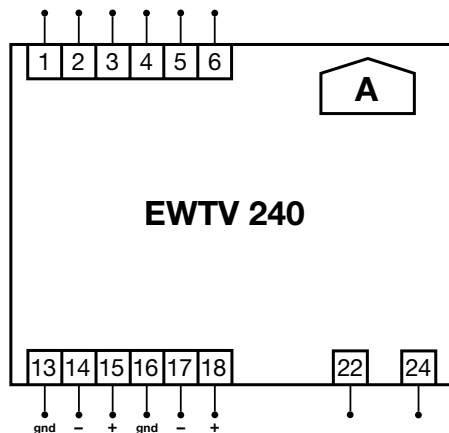
Tab. 8 Parameter values table EWTV 280

PARAMETER	DESCRIPTION	RANGE	DEFAULT	U.M.
odo	output delay (at) on	0...99	0	min
CLC	Communication Line Closure	0...250	0	min
dEA	dEvice Address	0...14	0	num
FAA	FAMily Address	0...14	0	num
rEL	rElease firmware	/	/	/
tAb	tAbles of parameters	/	/	/



WIRING EWTV 200

1 - 2	sensor n° 3 input
3 - 4	sensor n° 2 input
5 - 6	sensor n° 1 input
13 - 14 - 15	RS-485 serial output
16 - 17 - 18	RS-485 serial output
22 - 24	Power supply
A	To the EWTV 150 keyboard

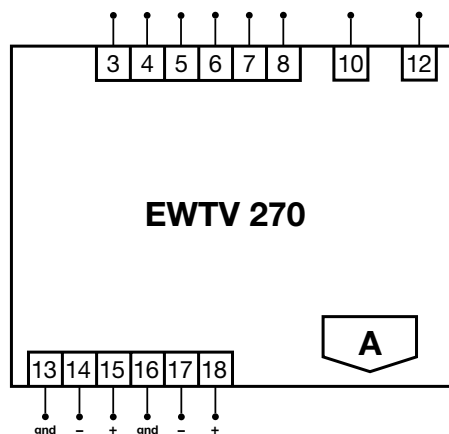


WIRING EWTV 240

1	GND
2	4...20 mA input n° 3
3	4...20 mA input n° 2
4	4...20 mA input n° 1
5	12 V~ output
6	12 V~ output
13 - 14 - 15	RS-485 serial output
16 - 17 - 18	RS-485 serial output
22 - 24	Power supply
A	To the EWTV 150 keyboard

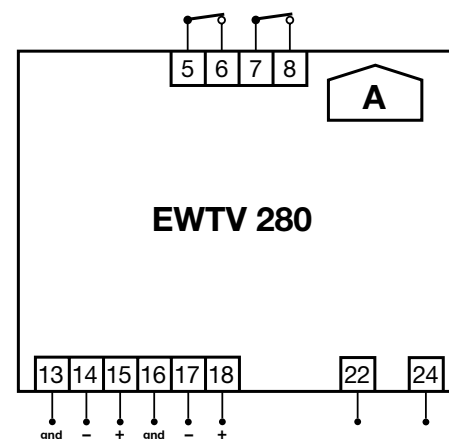
WARNING!

For current inputs provide an electrically separated supply for each instrument.



WIRING EWTV 270

3 - 4	230 V~ input n° 3
5 - 6	230 V~ input n° 2
7 - 8	230 V~ input n° 1
10 - 12	Power supply
13 - 14 - 15	RS-485 serial output
16 - 17 - 18	RS-485 serial output
A	To the EWTV 150 keyboard



WIRING EWTV 280

5 - 6	"no link" alarm
7 - 8	"system" alarm
13 - 14 - 15	RS-485 serial output
16 - 17 - 18	RS-485 serial output
22 - 24	Power supply
A	To the EWTV 150 keyboard