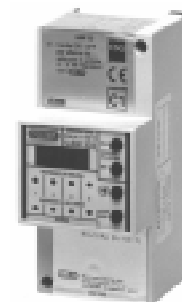


UNIT FOR ACQUISITION WATER TEMPERATURES

C ← BUS

UAM 322 Eng. C1

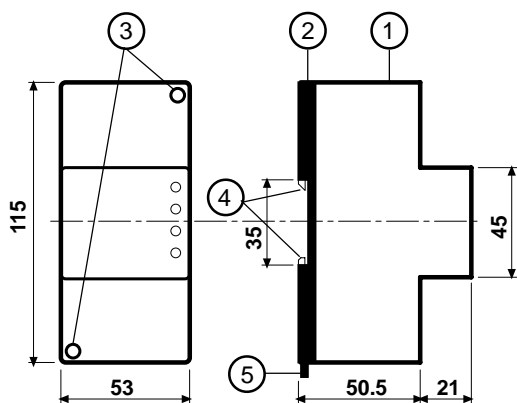
- 4 signals for water / ambient temperature (detectors NT 10 kΩ)
 - alarm signalling minimum temperature threshold
 - alarm signalling maximum temperature threshold
 - temperature display
- Communication systems:
 - C-Bus for telemanagement
- Power supply 230 V- ; DIN rail mounting



1. APPLICATION

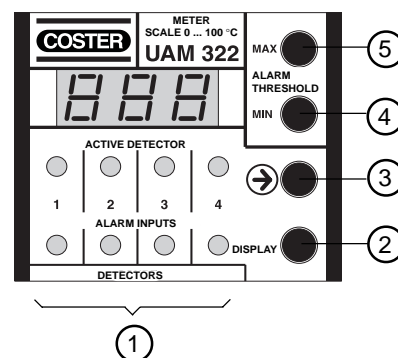
It can be used on its own in plants to monitor temperature.
By setting some minimum and maximum temperature thresholds it is possible to receive a signal of alarm.
When part of a telecontrolled system it is possible to operate a remote reading and modification of data via a C-Bus network.

2. OVERALL DIMENSIONS



- 1 - protective cover for electronic components
- 2 - base with transformer and terminal blocks
- 3 - screws for securing cover-base
- 4 - DIN rail securing elements
- 5 - DIN rail release lever

3. FACIA



- 1 - signaling alarm and status
- 2 - display minimum and maximum values
- 3 - selecting detector or address-setting key
- 4 - setting key for minimum temp. threshold
- 5 - setting key for maximum temp. threshold

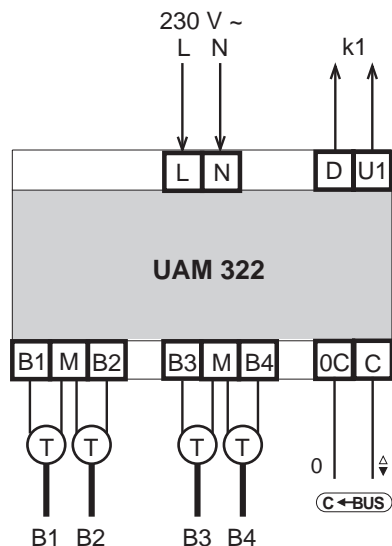
4. TECHNICAL DATA

Power supply	230 V ~ ± 10%	Materials:	
Frequency	50 to 60 Hz	base	NYLON
Consumption	2 VA	cover	ABS
Protection	IP40	Ambient temperature:	
Radio disturbances	VDE0875/0871	operation	0 ... 45 °C
Vibration test	with 2g (DIN 40 046)	storage	- 25 ... + 60 °C
Construction standards	Italian Electrotech. Comm. (CEI)	Ambient humidity	class F DIN 40040
Case	DIN 3E module	Measurement range	
Mounting	DIN 35 rail	detectors NT 10 kΩ	0 ... 99,5 °C
		Weight	0.27 kg
		Alarm signalling	by closed contact

5. INSTALLATION

The appliance must be installed in dry ambients, in conformity to the ambient limits given in TECHNICAL DATA. If placed in ambients classified as 'dangerous', it must be installed in enclosures for electrical apparatus constructed according to the regulations for the danger class involved.
It can be installed on DIN rail or in a DIN modular enclosure.

6. WIRING DIAGRAM



- L – Line 230 V~
- N – Neutral
- k1 – Input alarm contact to be connected to terminals D - E1, D - E2 or D - E3 of the equipment C-Bus
- C-Bus – Trasmission data by telemanagement
- B1 ÷ B4 – Temperature detectors (NT 10 kΩ water/ambient)(te)

7. WIRING

Proceed as follows:

- Separate base and cover
- Mount base on DIN rail and ensure securing elements (2.4) keep it firmly in place
- Carry out wiring according to the above diagram, in observance of current regulations and using the following cable types:
 - 1.5 mm² for power supply
 - 1 mm² for detectors and alarm contact
 - 1 mm² or C-Bus; see technical data sheet T 021 for restrictions on cable length
- switch on power (230 V~) and check voltage across terminals L and N
- switch off power - replace cover on base/terminal block and secure it with the 2 screws (2.3)

WARNING : the contact (k1) **must be connected to a Coster C-Bus equipment, to terminals D - E1, D - E2 or D - E3 (Eg. DTE 611, DTE 600, DTE 602, DRU 314, DTR 684 and so on).**

You are advised not to insert more than two cables in a single terminal of the UAM 322. If necessary make use of a junction box

8. OPERATION

For each input of the UAM 322, it is possible to programme:

- real temperature measured by the detectors. Press key (3.3) at each press the value shown in the display changes and the corresponding led is switched on.
- maximum and minimum detectors values: press key (3.2), the minimum and maximum values reached by the measurement are displayed alternatively. To zero the two values keep the key pressed for 10 seconds, till you see three dashes.
- maximum and minimum alarm values setting: press key (3.4) for the minimum value and the key (3.5) for the maximum one. To change such values press the corresponding key (min. or max.) for 5 seconds. When three dashes appear in the display release the key and then press it again to read the alarm threshold which can be modified if you keep on pressing the key. To exclude the limit press the corresponding key till the dashes appear in the display. Release it and wait for about 10 seconds till display of the measured temperature (cut out limit will give OFF on display)
- C-Bus address setting: press key (3.3) for more than 10 seconds. The display will show the present address. By releasing the key three dashes will appear in the display. By pressing the key again you will see three zeros in the display. Values can be increased by pressing the key. Once the desired value has been reached do not press any key for 5 seconds. The desired address will then be acquired and the controller will go back to its normal function.

From the telemanagement PC it is possible to set:

- delay in acquisition of alarm (from 0 to 255 minutes)
- possibility of sending an alarm signal when a programmed limit is reached
- password for telemanagement
- location of the plant

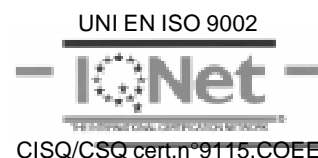
From telemanagement PC, for each single input, it is possible to:

- choose the maximum and minimum alarm values
- zero the maximum and minimum values reached by measurements
- input identification (eg flow detector / ambient detector)

- UAC 328 address factory setting: 7



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