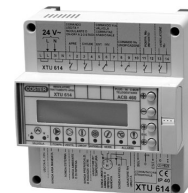


TEMPERATURE & HUMIDITY CONTROLLER FOR ONE-BATTERY AIR-HANDLING UNITS

OPTIONAL TELEMAGEMENT

XTU 614

TELEMAGEMENT C-Bus: Enabled with ACB 460 accessory



APPLICATION

For control of room temperature and humidity and/or discharge air in air-handling units comprising:

- 1 battery for heating and/or cooling or pre-heating.
- 1 On-Off humidification battery.
- 1 air mixing unit or 1 heat regenerator.

Essential sensors: 1 room or air duct temperature sensor.

Optional sensors: 1 flow or pre-heating temperature sensor, 1 window dew-point sensor, 1 battery Frosprot sensor, 1 temperature set-point adjuster, 1 humidity set-point adjuster

Features

- Power supply: 24V~; Consumption: 5VA; DIN 105 x 115 modular enclosure; Protection: IP 40.
- Digital programming by means of 4 keys and alphanumeric display.
- Timed programming: 24hour and 7day.
- Programming with dates: 25 holiday periods; winter season; summer season.
- Automatic switching GMT – BST.
- One 3-wire modulating output or On-Off in 2 stages (2 equal loads) or in 3 stages (2 unequal loads) configurable for:
 - control of winter & summer room temperature with, if required, summer outside compensation, minimum.& maximum limits of flow in order to avoid cold air currents, stratification of hot air and condensing in the air ducts.
 - control of flow temperature at fixed point with, if required, winter & summer compensation.
 - control of pre-heating temperature at a variable value in relation to room temperature & humidity.
- 1 On-Off output for control humidifying unit for control of relative humidity at fixed point.
- 1 progressive 0...10 V- output configurable for:
 - control of mixture outside air in relation to comparison room - outside temperatures.
 - control outside air for control of room dehumidification with compensation for windows dew point.
 - control of heat regenerator in relation to comparison room – outside temperatures.
- Two On-Off outputs for control of fan and pump according to timed program in use.
- Control Frosprot temperature battery.
- Manual or automatic season switching of controller functions and of On-Off 3-wire season switch.
- Variation of temperature & humidity set points by means of remote control.
- Alarms for plant faults and for open or short sensor circuit.

Code	Description	Data Sheet
XTU 614	Temperature & humidity controller for one-battery air-handling units optional telemagement.	E 134

SENSORS AND ACCESSORIES

Code	Description	Application range	Sensing element or signal	Data Sheet
ACB 460	Plug-in for C-Bus communication	-	-	T 433
STA 010	Air duct temperature sensor	0 ... 60 °C	NTC 10 kΩ	N 150
SAB 010	Room temperature sensor	0 ... 40 °C	NTC 10 kΩ	N 111
STA 001	Air duct temperature sensor (external)	-40 ... 40 °C	NTC 1 kΩ	N 150
SAE 001	Outside temperature sensor	-40 ... 40 °C	NTC 1 kΩ	N 120
SAF 010	Cable-type temperature sensor	0 ... 40 °C	NTC 10 kΩ	N 145
STV 010	Window glass dew point sensor.	0 ... 40 °C	NTC 10 kΩ	N 160
SUR 704	Relative humidity and temperature sensor	10 ... 90 %	0 ... 10 V-	N 221
SUT 714	Relative humidity and temperature sensor	10 ... 90 %	0 ... 10 V-	N 222
SAU 914	Relative humidity & temperature sensor	10 ... 90% 0 ... 40 °C	0 ... 10 V- NTC 10 kΩ	N 227
CDB 100	Set point adjuster with incorporated sensor	-5 ... +5 °C	NTC 10 kΩ	N 710
CDB 200	Humidity setpoint adjuster	-10 ... +10 %	-	N 710