

COMPENSATING CONTROLLER FOR DISTRICT HEATING SUB-STATIONS WITH HEAT EXCHANGERS OPTIONAL TELEMAGEMENT

XTT 608



TELEMAGEMENT C-Bus: Enabled with ACB 460 accessory.

APPLICATION

Designed for the control of district heating substations comprising one heat exchanger Heating (modulating control) and one DHW heat exchanger (On-Off or modulating).

Data communication with other controllers via serial C-Ring connection.

Essential sensors: 1 heating flow sensor, 1 DHW storage tank sensor.

Optional accessories: 1 outside sensor, 1 room sensor, 1 primary return sensor, 1 heating return sensor, 1 DHW distribution sensor.

Features

- Power supply: 230V~; Consumption: 5VA; DIN 105 x 115 modular enclosure; Protection: IP 40.
- Digital programming by means of 4 keys and alphanumeric display.
- Control of heating flow temperature: - At fixed point with desired flow temperatures Fixed Point 1-2.
 - Compensated with desired room temp. Normal 1...5, Setback 1-2, Frosprot.
 - Variable in relation to temperature requested by heating zones (C-Ring).
 - Modulating control (3-wire) of control valve of primary circuit exchanger Heating.
- Forced closure of valve for:
 - minimum opening limit.
 - minimum limit primary circuit flow.
- Valve opening limits for:
 - maximum opening limit.
 - maximum limit primary circuit return temperature.
 - maximum limit primary circuit flow.
 - maximum limit temperature difference between primary and secondary returns.
- On-Off control heating pump in relation to demand for heat.
- Timed programming with seven 24hour programs and two 7day programs.
- Functions:
 - optimized start and stop; Eco off; Frosprot.
- Control of temperature DHW at fixed point (storage or distribution or storage & distribution):
 - Three-wire modulating control or On-Off valve primary circuit heat exchanger DHW.
 - Timed control DHW circulation pump.
 - Timed programming with seven 24hour programs and two 7day programs.
 - Antibacteria function.
- 25 annual periods with dates and separate programming for heating and DHW.
- Summer exercise function for valves and pumps.
- Automatic switching GMT – BST and summer/winter switching.
- Metering degree-days.
- Input for measurement flow or input for On-Off alarm
- Input for program changing switch or input for On-Off alarm.
- Alarms for plant faults and for open or short sensor circuit.
- Data recorder.

Code	Description	Data Sheet
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SENSORS AND ACCESSORIES

Code	Description	Application range	Sensing element	Data Sheet
ACB 460	Plug-in for C-Bus communication	–	–	T 433
SAE 001	Outside temperature sensor	–40 ... 40 °C	NTC 1 kΩ	N 120
SIH 010	Immersion temperature sensors	0 ... 99 °C	NTC 10 kΩ	N 140
SAB 010	Room temperature sensor	0 ... 40 °C	NTC 10 kΩ	N 111
SHF 001	Cable-type temperature sensor (primary flow & return)	0 ... 180 °C	Pt 1 kΩ	N 145
CDB 300	Remote control to modify program in use	–	–	N 710