TEMPERATURE CONTROLLER FOR MODULATING BURNERS

DTC 628

(C ←BUS)   (C ←RING)

APPLICATION

Designed for temperature control of a boiler with modulating 3-wire burner.
Also suitable for modulating condensation boilers.
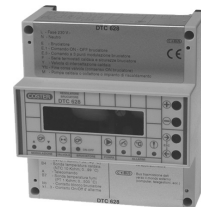C-Bus compatible.
C-Ring compatible.
Essential detectors: 1 boiler detector.
Optional detectors: 1 outside detector, 1 flue gases detector.

FEATURES

• Power supply: 230 V~; Consumption: 5 VA; DIN 105 x 115 modular case; Protection: IP 40.
• Digital programming by means of 4 operating keys and alphanumeric display.
• Boiler temperature control:
  – Variable: according to temperature requested by DHW/heating/etc circuits.
  – Compensated: in relation to outside tempertaure with desired room temperature Normal 1 ... 5, Setback 1-2, Frost protection;
  – Fixed Point with desired Flop temperature Flow 1-2.
  – By remote control with choice between: Off, Frost Protection, Room Normal 1, Room Setback 1, Flow 1.
  – Minimum and maximum limits boiler temperature.
• Control of burner by On-Off and 3-wire modulating (common - increases - decreases).
• On-Off control of boiler shut-off valve.
• On-Off control of pump (boiler, manifold, heating plant).
• Timed events programming with seven 24hour and two 7-day programmes.
• Programming with dates with 25 annual periods, one Special period and heating season.
• Automatic switching Greenwith Mean Time (GMT) to British Summer (BST).
• Eco Off.
• 4 ON-Off inputs: - 3 for signalling alarms or status; - 1 for signalling burner lockout.
• 1 input for measurement temperature flue gases.
• Alarms for controller fault and for short or open detector circuits.

Code		Description	Data sheet
DTC 628		Temperature controller for a modulating burner.	A 510

DETECTORS AND ACCESSORIES

Code		Description	Use range	Sensing element	Data sheet
SIH 010		Immersion temperature detector.	0…99 °C	NTC 10 kΩ	N 140
SAE 001		Outside temperature detector.	–30…40 °C	NTC 1 kΩ	N 120
STF 001		Flue gases temperature detector.	0…500 °C	Pt 1 kΩ	N 165
CDB 301		Remote control for chancing programme (DIN 3 container).	–	–	N 711