

# PROTHERM 20 CARBON/DEWPOINT CONTROLLER



## FURNACE ATMOSPHERE MEASUREMENT & CONTROL



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The **PROTHERM 20** is designed for cost-effective measurement and control of carbon content, oxygen content, and dewpoint. The unit provides simple 2-point (on/off) control, continuous PID control, or 3-point stepping control.

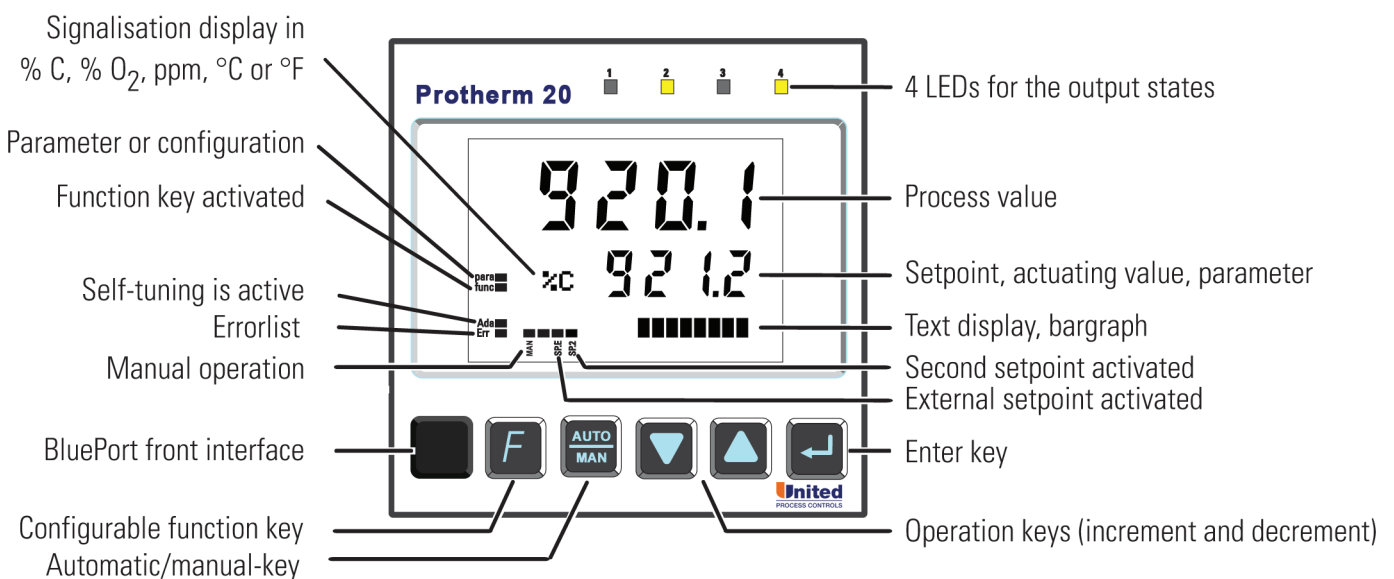
## FEATURES

- Three analog inputs, two are universal
- Two freely configurable analog output, e.g. as process value output
- High-impedance mV input for O<sub>2</sub> sensors
- Oxygen calculation (ppm /%O<sub>2</sub>, automatic adaptation)
- Carbon content calculation (%C, 2 decimals)
- Dewpoint calculation (°C, °F selectable)
- Self-Tuning to the setpoint without oscillation
- Valve controller with position feedback and DAC monitoring
- Universal continuous/switching version, i.e. reduced stocks of spare parts
- 100 ms cycle time, also suitable for fast control loops
- 20 ms as shortest pulse-length
- Customer-specific linearization for all sensors
- Settings can be blocked via password and internal switch for high security
- Extended temperature range up to 140°F (60°C) allows mounting close to the process

- Easy 2-point or offset measurement correction
- Emergency operation after sensor break by means of the “output hold” function
- Logical combination of digital outputs, e.g. for general alarm
- Manual gain scheduling
- RS 422/485 Modbus RTU interface
- PROFIBUS-DP interface
- Built-in transmitter power supply
- Splash-water proof front (IP 65)
- Front interface port
- BluePort®Front interface and BlueControl software
- Customer specific data-set
- Maintenance manager and error list
- ‘Day & Night’ display shows plain text and bar graphs
- Type tested to EN 14597 (replaces DIN 3440) and cULus

## SPECIAL FEATURES

- Monitoring and PID control of:
  - C content,
  - oxygen content or
  - dewpoint
- Input for connecting lambda-sensor
- Automatic and manual sensor purging
- Sooting alarm
- Gas-correction input CO or hydrogen (H<sub>2</sub>) compensation
- Calibrating function for the atmosphere input



<b>USA</b> +1 414 462 8200 sales.na@group-upc.com	<b>CANADA</b> +1 514 335 7191 sales.na@group-upc.com	<b>CHINA</b> +86 21 3463 0376 sales@mmichina.cn	<b>FRANCE</b> +33 3 81 48 37 37 sales.fr@group-upc.com	<b>GERMANY</b> +49 7161 94888 0 sales.de@group-upc.com	<b>POLAND</b> +48 32 296 66 00 sales.pl@group-upc.com
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