

COMBUSTION PROCESS MONITORING & CONTROL



PROTHERM 470 FOR COMBUSTION PROCESS

FEATURES & CHARACTERISTICS

The PROTHERM 470 controller is designed to monitor, control, record, and archive combustion processes running in a furnace or simultaneously in multiple chambers. This powerful controller is suitable for various types of batch and continuous operations and can be installed on new, retrofit, or refurbished equipment. The fully configurable I/O channels can be used with oxygen sensors or any sensor with an analog output signal or Modbus communications.

Probe 1			21.03.2017 13:35:32
PROBE STATUS			
Probe 1 %O2			2.0 %O2
Verify	ON	2.0 %O2	
Verify Gas	1.0		
Last Verification	12/12/2016		
Impedance	OFF	1.2 Kohm	
Last Impd Test	12/12/2016		
Recovery Time	4 Sec		

MAIN FEATURES

- Visual display of the sensor values
- Up to 4 oxygen sensors may be displayed and logged
- Can hold up to 32 PID control-loops to regulate configured process parameters such as temperature, process pressure, oxygen potential, etc.
- Compatible with most sensor outputs
- All process parameters can be configured with alarm limits
- Notification and processing of alarms
- Process variables can be viewed and recorded with chart recorders
- Recipe log files in PDF and ASCII-CSV format can be downloaded to a remote computer for archiving
- Up to 99 treatments and templates can be created and modified

OPERATING CHARACTERISTICS

- Control knob or touch-enabled screen enables user to select input fields and enter data.
- Function keys are used for accessing the most important functions.
- User access to different functions is password protected.
- A PC keyboard can be connected through a USB port.

INTEGRATED WEB SERVER

- A remote computer can be connected to the device through a standard web browser.
- Process logs in PDF and in ASCII-CSV format are kept for 30 days. They can be downloaded and then further processed with any appropriate PC software (e.g. Microsoft® Excel).
- A powerful Java-based configuration tool can be downloaded and installed on a local PC for configuring all the device parameters.

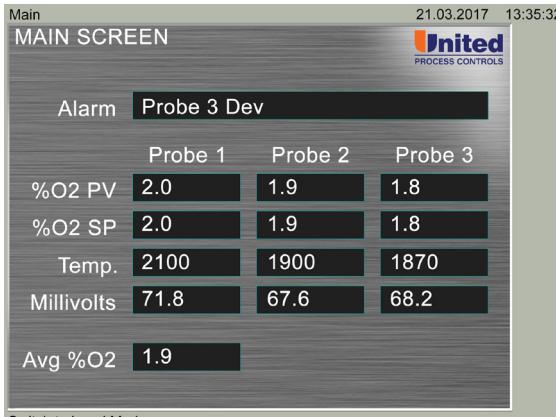
BUILT-IN FUNCTIONS

- Mathematical model for calculating atmospheric parameters from gas inputs and sensor values
- Automatic sensor impedance test
- Automatic sensor verification

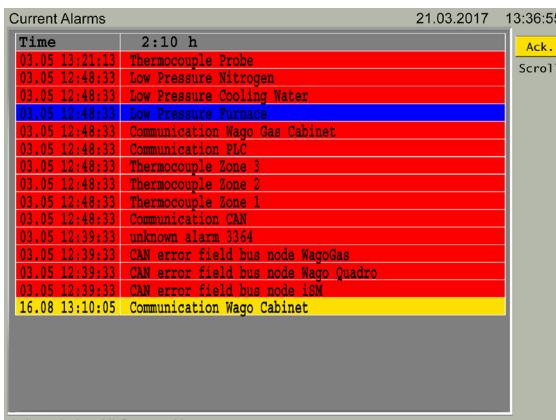
CONFIGURATION

- Control loops, process graphics, process variables and more can be configured with a user-friendly proprietary configuration software.
- The set-up of the PID parameters and other control functions are accessed via the configuration key.

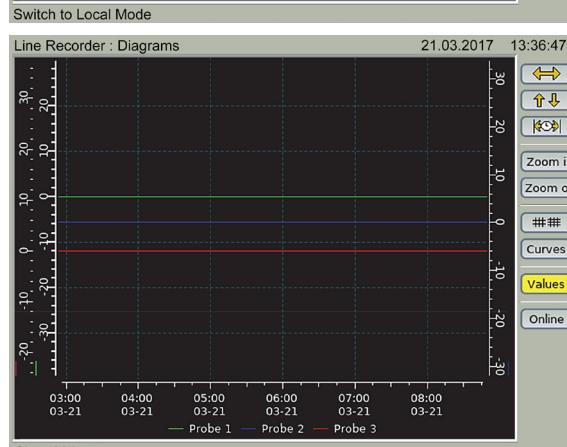
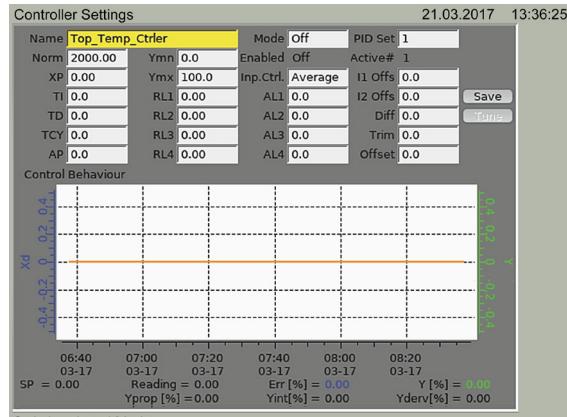
SCREENS



Switch to Local Mode



Acknowledge All Current Alarms



PROCESS SETTINGS SCREEN (CONFIGURABLE)

- Display of selected process variables
- Input screen for process parameters

PROCESS MANAGEMENT

- Treatments can be created and modified
- Jobs can be started and stopped
- Templates can be created and modified

HISTOGRAMS (CONFIGURABLE)

- Paperless flexible chart recorder
- 8 chart recorders (screens) displaying up to 8 process variables (64 analogue values)
- Zoom functions
- Slide ruler displays individual settings and values

CONFIGURATION

- Special menu for the configuration of integrated controllers
- PID set-up
- Adjustment and setting of control parameters
- Real-time graph for displaying the control parameters and checking the settings

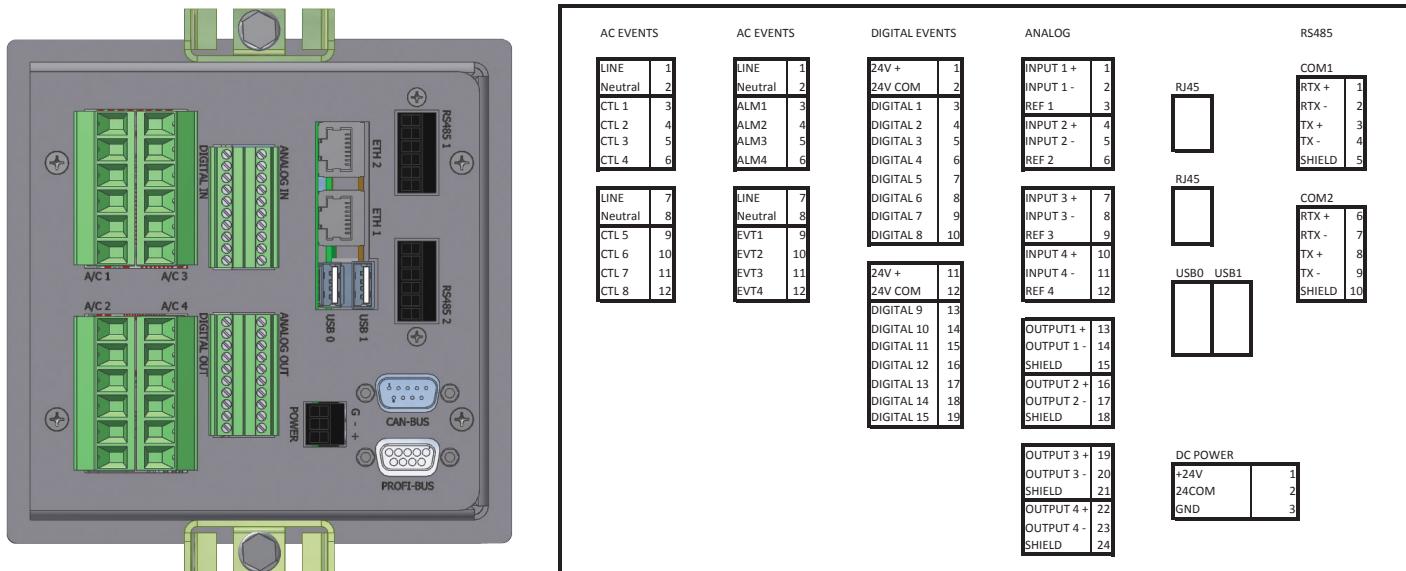
ALARM MENU

- Comprehensive alarm processing
- Recording of all alarms

PROTHERM 470 FOR COMBUSTION PROCESS

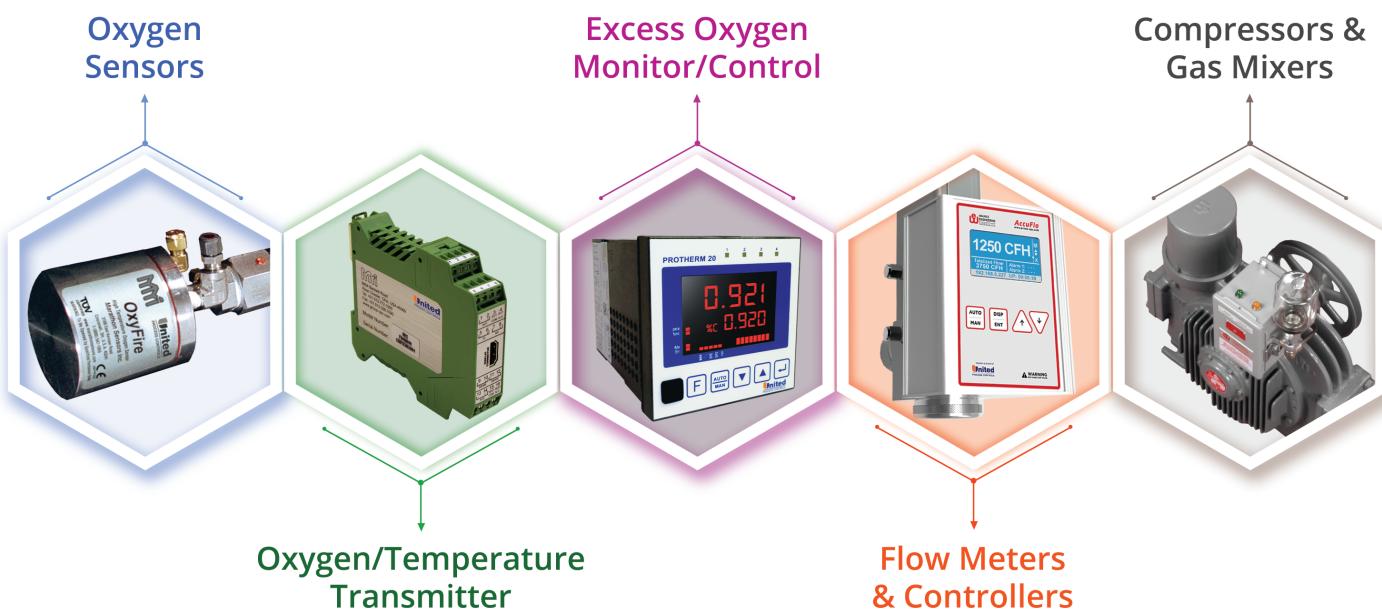
United
PROCESS CONTROLS

INTEGRATION & CONNECTION



Protherm 470 Backplate

ALSO AVAILABLE



USA

+1 414 462 8200
sales.na@group-upc.com

CANADA

+1 514 335 7191
sales.na@group-upc.com

CHINA

+86 21 3463 0376
sales@mmichina.cn

FRANCE

+33 3 81 48 37 37
sales.fr@group-upc.com

GERMANY

+49 7161 948880
sales.de@group-upc.com

POLAND

+48 32 296 66 00
sales.pl@group-upc.com