

# 3216

## Temperature/Process Controller



### Ideal for

- plastic extruders
- small ovens
- chillers
- sterilizers
- trace heating
- packaging machines

The 3216 1/16th DIN controller provides a new level of user convenience. Scrolling text messages deliver plain language messages to let operators and engineers alike know exactly what is happening to the process.

The **Quick Start Wizard** makes configuration simpler than ever. At initial power up the configuration is displayed on the lower display with clear descriptive text providing scrolling help for each setting.

**Universal inputs** enable the simple selection of any standard thermocouple, 2 or 3 wire Resistance Thermometer or process input. A custom linearization can be installed using the simple PC tool, iTools.

**Three outputs** can be configured to provide any combination of heating, cooling and alarm.

The **Load Current Transformer Input**, CT input, provides the ideal method to monitor load current and provide immediate indication of load conditions. Partial load failure, heater open circuit or SCR short circuit can each be indicated by clear scrolling operator messages and relay output.

The **operator interface** is fully configurable, enabling any parameter to be promoted for immediate operator access on level 1 or password protected level 2. This provides for the simplest solutions right through to sophisticated applications.

The new **three color LCD** display provides clear indication of process variables. The upper display shows the process measured value while the lower display can be set to display a range of parameters including setpoint, time remaining and current.

The **communications option** provides full system integration through the industry standard Modbus protocol.

### Specifications

#### Dimensions:

48W x 48H x 90D mm

#### Text messages:

10 x 30 character messages

#### Control modes:

PID or On/Off, heat/cool, heat only, cool only

#### Supply voltages:

85-264Vac, 24Vac/dc, 6 watts max.

#### Operating ambient:

0 to 50°C, 5% to 85% RH, non-condensing

#### Inputs:

Thermocouples, Pt100 3 wire, 0-50mV, 4-20mA, 0-20mA, Custom linearization

#### Current transformer input:

50mA ac into 10R

#### Communications:

Modbus, RS232, RS485 2 wire

#### Output ratings:

Relay: 2A, 264Vac resistive

Logic out: 12Vdc

Digital in: contact closure or logic

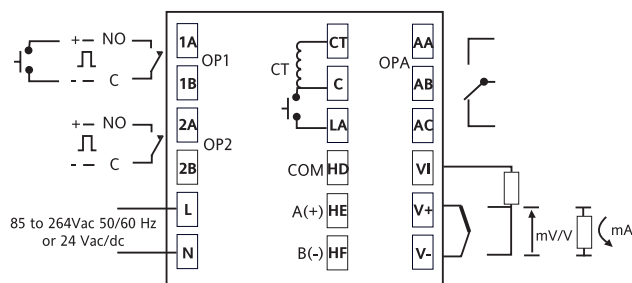
#### Panel sealing:

IP65, NEMA 4X, plug-in from front panel

#### Data sheet:

HA028002

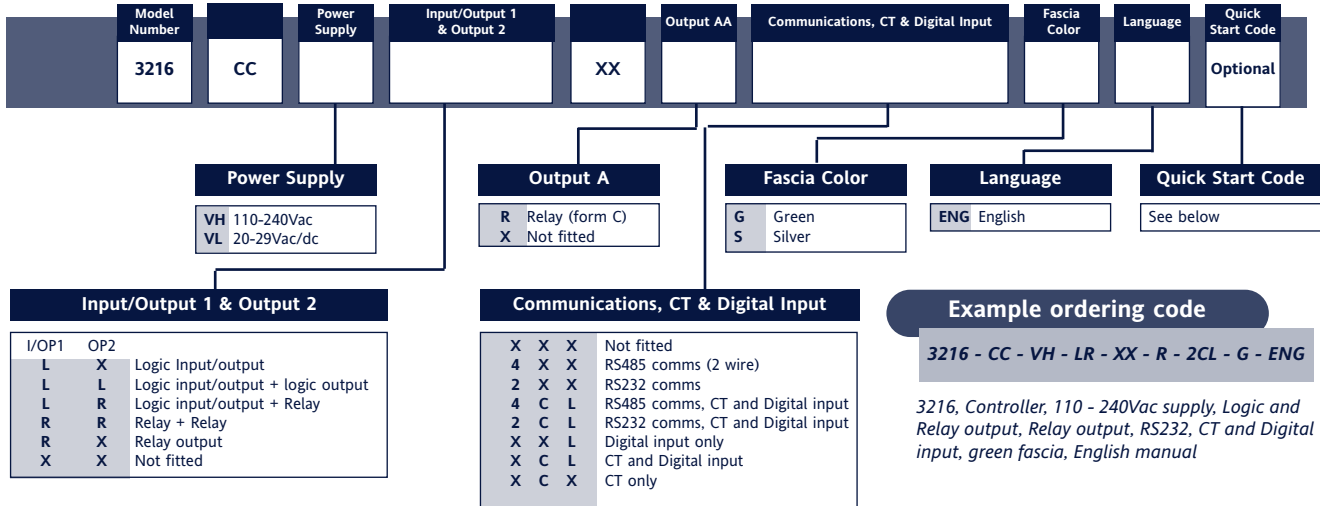
### Rear terminal connections



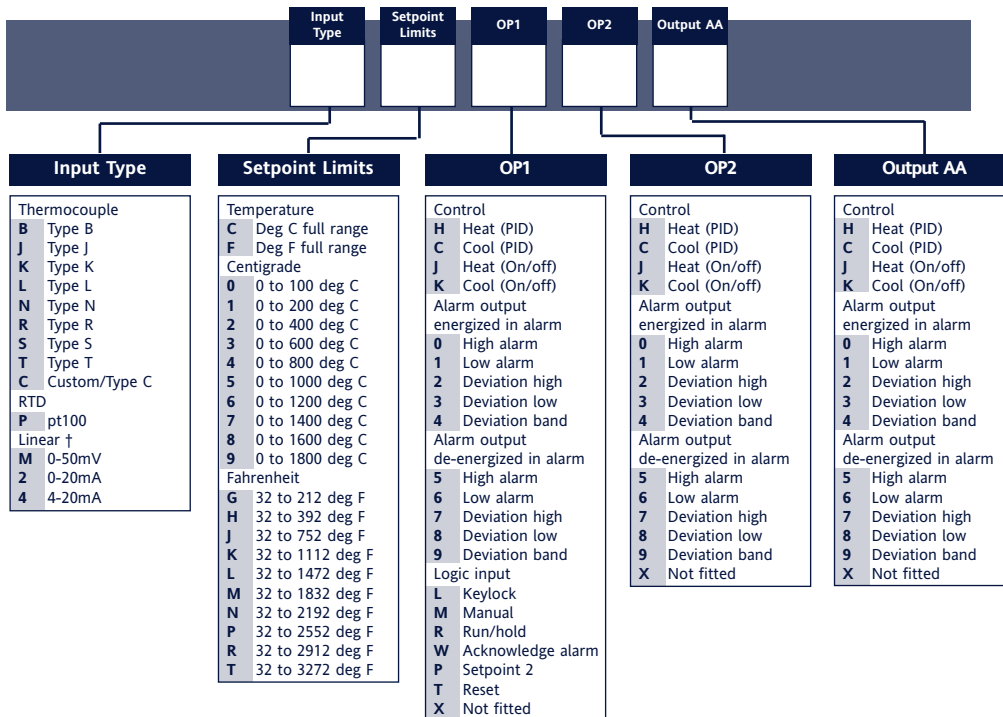
# Ordering codes



## Hardware coding only



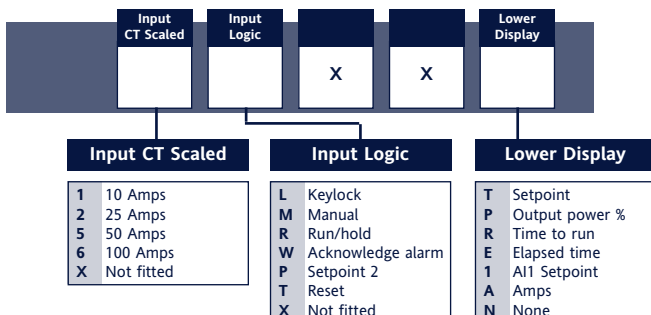
## Optional Quick Start Code - Part 1



*Notes:*  
Alarms are numbered left to right.  
The first alarm output will be number one.

† Linear current inputs use an external 2.49 Ohm, 1% current sense resistor.

## Quick Start Code - Part 2



*Note:*  
The current transformer input (CT) will be attached to the first Heating Channel