The entry level 3216L controller offers precision control of temperature and other process variables in an affordable format. The emphasis is on simplicity and ease of use. A simple ‘Quick Start’ code is used to configure all the functions essential for controlling your process. This includes input sensor type, measurement range, control options and alarms, making ‘Out of the Box’ operation truly achievable. PID with autotune is available as standard with control outputs allowing relay and logic SSR drive in heat only or heat/cool configurations. Up to two latching alarm trip relays are available.

**Isolation**

**Rear Terminals**

**Mechanical Details**

Panel cut-out 45mm (-0.0 +0.6) x 45mm (-0.0 +0.6)
SPECIFICATION

General

Environmental performance
- Temperature limits: Operation: 0 to 55°C, Storage: -10 to 70°C
- Humidity limits: Operation: 5 to 90% RH non condensing, Storage: 5 to 90% RH non condensing
- Panel sealing: IP65, Nema 4X
- Shock: BS EN61010
- Vibration: 2g peak, 10 to 150Hz
- Altitude: <2000 metres
- Atmospheres: Not suitable for use in explosive or corrosive atmosphere

Electromagnetic compatibility (EMC)
- Emissions and immunity: BS EN61326

Installation category II
- The rated impulse voltage for equipment on nominal 230V mains is 2500V.

Pollution degree 2
- Normally, only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation shall be expected.

Physical
- Panel mounting: 1/16 DIN
- Weight: 250g
- Panel cut-out dimensions: 45W x 45Hmm
- Panel depth: 90mm

Operator interface
- Type: LCD TN with backlight
- Main PV display: 4 digits, green
- Lower display: 5 character starburst, green
- Status beacons: Units, outputs, alarms, active setpoint

Power requirements
- 100 to 240V ac, ~15%, 48 to 62 Hz, max 6W

Approvals
- CE, cUL listed (file E57766), Gost Suitable for use in Nadcap and AMS2575D applications under Systems Accuracy Test calibration conditions

Process variable input

Calibration accuracy:
- ±0.25% of reading ±1LSD*
- ±0.5μV with 1.6sec filter
- ±17 bits

Linearisation accuracy:
- <0.1% of reading

Drift with temperature:
- Common mode rejection: ≥30:1 rejection of ambient change

Series mode rejection:
- Linear: 48-62Hz, >90dB

Input impedance:
- 100MΩ

Cold junction compensation:
- ≤0.1°C at 25°C ambient

Linearity (process) input range:
- <100μV, 0 to 10V with 1000Ω/806Ω external divider module

Thermocouple types:
- K, J, N, R, S, B, L, T

Resistance thermometer types:
- 3-wire PT100 DIN 43760

Output assignment: Relay
- Latching: Manual latching
- Number: 2

Alarms
- Type: Absolute high & low, deviation high, low or band
- Latching: Manual latching
- Output assignment: Relay

Order code

Basic product: 3216L

Specials/Accessories: XXXXX

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ENG English

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