# DR4000

Universal controller for industrial processes, updated to offer higher performance, easier use and lower running costs.

## New features:

- Easy to install and configure thanks to the simpler, more intuitive user interface;
- Compatible with the new management and data download tools (Device Manager/Unicard);
- More efficient warehouse management thanks to rationalisation of codes;
- Higher reliability of low-voltage models (12...24V~ and 12...36V⎓) thanks to the extension of the galvanic insulation;

invensys
Controls

## DESCRIPTION

Suitable for mounting on electrical panels equipped with DIN rails, the new DR4000 V2 temperature regulators make flexibility their strength: the wide variety of power supply types, signals and connections supports an extensive range of possible industrial applications (ovens, pressure and humidity controls, etc).

Eliwell's experience in this sector has enabled it to develop an extremely configurable and flexible product. As shown in the table, the number of models in the DR4000 range has been reduced, with substantial benefits for the end-user.

The key points are:

- Switching type **Universal Power Supply** (100 ... 240V~, 12 ... 24V~ and 12 ... 36V⎓)
- **Optimum information management** and ease of use thanks to the double display
- **Flexibility** in acquisition of analogue inputs

| Characteristics of available models | |
|---|---|
| DR40**20** | **1** analogue input + **2** relay outputs |
| DR40**22** | **1** analogue input + **2** relay outputs + **1** V/I analogue output + **1** Digital input + **1** 485 serial connection |

## TECHNICAL SPECIFICATIONS*

| | |
|---|---|
| Case: | plastic casing 4 DIN modules |
| Dimensions: | front panel 70.2x87 mm, depth 61.6 mm |
| Mounting: | on DIN rail (Omega 3) or panel mounting, with 70x45mm drilling template. |
| Power supply Switching: | 100 ... 240V~  (±10%)<br>12 ... 24V~  (±10%)  50/60Hz<br>12 ... 36V⎓  (±10%) |
| Power consumption: | 4W max |
| Analogue Inputs: | 1 probe input, which depends on model:<br>- **Tc** (TcJ, Tck)<br>- **PTC/NTC/PT1000**<br>- **PT100**<br>- **V** (0...5V, 0...10V)<br>- **I** (0...20mA, 4...20mA, 0...1V). |
| Analogue output: | 1 V/I output: 0...1V, 0...5V, 0...10V, 0...20mA, 4...20mA |
| Digital Outputs: | **OUT 1**: 1 SPDT 8(3)A max 250 V~<br>**OUT 2**: 1 SPDT 8(3)A max 250 V~ |
| Buzzer output: | only on models where this is provided |
| Terminals: | screw terminals for cables with a cross-section of 2.5mm$^2$ |
| Connections: | - **TTL** for connection to Unicard / Copy-Card<br>- **RS485** for connection to supervisors Televis**System**/ModBus (DR4022 only) |
| Display range: | • **NTC**: -50.0...110.0°C<br>• **PTC**: -55.0...150.0°C<br>• **PT100**: -200.0...800.0°C<br>• **PT1000**: -200.0...800.0°C<br>• **TcJ**: -40.0...760.0°C<br>• **TcK**: -40.0...1350.0°C<br>• **V-I**: 0...1V, 0...5V, 0...10V, 0...20mA, 4...20mA. |

## DISPLAY

A large double display with keypad for programming process parameters simultaneously displays all the necessary information about setpoint, value acquired by probe, and status of monitoring and alarm outputs.

**Process Value (PV)**:
Used to display the process value, and the labels of parameters, alarms and functions.



**Set value (SV)**:
Used to display the setpoint, parameter values, function statuses and other statuses.

It is thus possible to keep all the necessary information under control without any need to access the programming menu, thereby facilitating use.

**\* Eliwell reserves the right to make changes to its instruments without notice.**

## ACCESSORIES

The following Eliwell accessories are compatible with DR4000 regulators:

- UNICARD or COPY CARD
- DMI
- PROBES (NTC, PTC, PT100, PT1000, TcK, TcJ)
- SOFTWARE DEVICE MANAGER

**NOTE**: for further information on codes, availability and costs, please contact the Eliwell Sales Department.

ISO 9001