# **Eurotherm**

# Eycon10 & 20 Visual Supervisor

# More than a display... creative visualization solutions that put you in control

Eycon10 and Eycon20 visual supervisors are local control panels that offer colour TFT LCD touchscreen displays and are capable of continuous, sequential, and logic control. Eycon combines multi-function control, recording, and visualization in a single process management unit. The open network architecture allows connection to the process interface i.e. T2750 PAC, PLCs and other 3rd Party devices. Separating the processing and operator interface from the I/O, the control modules, and the phases allows for physical distribution of the modules, which results in reduced wiring costs.

#### Multi-setpoint programmer

Many applications need to vary the process value over time. Temperature control is one such application in which it is very common to 'ramp' the process value from one level to another over a specified time period using a setpoint program.

The Eycon provides support for multiple setpoint programs that can be run simultaneously. Each program is capable of profiling up to eight channels, with as many as 32 segments per profiled channel. In addition to controlling the setpoint during each segment of the profile, the controllers can also be used to activate up to 128 digital events during each segment.

The setpoint program feature enables an operator to select and run a preconfigured setpoint program. A preview facility allows the selected program to be viewed before running. Once the program is running, the setpoint preplot and the historically achieved process values are both plotted on the trend screen.

## **Batch control**

Batch Manager provides comprehensive batch control; allowing an operator with suitable access permissions to load, start, hold, restart, or abort a batch. The batch status can also be monitored from standard displays. Each batch can be identified by a batch ID entered by the operator, or by a unique automatically generated batch number. The six customisable operator entry fields can also be used to further identify batch data. Batch phases are supported and phases which the batch went through are used to further analyse the batch data.



- Colour touchscreen display
- Peer to peer communications
- Modbus master/slave
- Profibus master
- 10/100Mbps Ethernet
- Continuous and sequential control
- Multi-setpoint programmer
- Batch control
- Recipes
- USB support
- 21 CFR Part 11 auditor
- Data logging
- Open communications
- Alarm management
- Multi-language support
- Heat treatment application editor

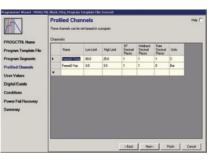


#### Auditor

The Auditor option for the visual supervisors is designed specifically to aid compliance with FDA regulation 21 CFR part 11 for ERES (Electronic Records and Electronic Signatures). Tamper resistant electronic data, including time stamped Audit Trails can be viewed, analysed, and printed using the Eurotherm<sup>™</sup> Review software package. Reports can also be generated directly and printed via the USB port to a suitable printer.

# Setpoint program Wizard

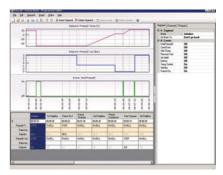
For ease of use, LINtools incorporates a Wizard for creating setpoint programs. By following the on screen prompts and editing the parameters as required, a setpoint program can be simply and quickly created



with all required blocks automatically added to the database.

## Setpoint program editor

In addition to the Setpoint Program Wizard, programs can also be created or edited off-line using the Setpoint Program Editor supplied with LINtools. As an ActiveX, this tool can be inserted in any of your visualization packages.



Programs can be created, edited and monitored directly on the Eycon standard user screens.

Setpoint Programmer (V3.0 or higher)

A maximum of 8 programs can run concurrently.

#### **Data logging**

Selected data can be logged periodically (hourly, daily or on demand) to an internal history file. Process variables are placed into history at the configured recording interval. Additionally, alarm messages and batch start/stop events are time stamped and placed into history files when they occur. Archived data (either ASCII or tamper resistant) can then be transferred to a local/remote server via FTP or a USB storage device. Alternatively, archived data can be automatically transferred over the network using the Eurotherm Review Software package.

For accurate time stamping, Eycon supports connection to two SNTP servers. Local time is also available for configuration.

#### User configurable function keys

A unique feature of the Eycon series is the User definable keys which can be configured as required with the User Screen Editor Software package. As standard, the Eycon10 has six user definable function keys (27 for the Eycon20) that can be configured to perform specific actions such as navigating between process screens.

Additionally, the size of the touch area, as well as the number of active keys can be customised by the user. The printed legend behind the touchscreen area is also removable and can be customised and replaced as required, providing users the ability to design their own, unique operator interface.

#### Alarm management

When used in conjunction with a Eurotherm T2750/T2550 Programmable Automation Controller (PAC) alarms are managed and collected within the PAC to provide features such as alarm status and priority, acknowledgement, date and time stamping at source as well as alarm suppression and local historian message storage.

#### **Open communications**

The Eycon provides a special function block to define any simple serial communications protocol. This can be used to integrate many 3rd party devices which use ASCII communications, such as bar code readers or particle counters. Direct control over transmit and receive also allows multi-node connections.

# Heat Treatment application editor

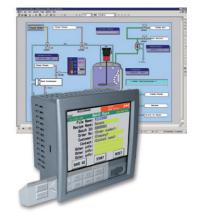
The Program Application Editor provides the user with a more efficient and intuitive method of creating and editing programs for a specific application.

File Edit Help							
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Using the PC based tool users are able to create a series of segments (Segment Class) that allows the operator to create a program suitable for the target application. Each segment class contains a series of questions, the answers to which will determine how the segment is parameterised, resulting in a program tuned to the specific application.

#### User screen editor

In addition to screen customisation user definable keys can be configured as required with the User Screen Editor Software package and the printed legend behind the touchscreen can be customised and replaced as well.



# Specification

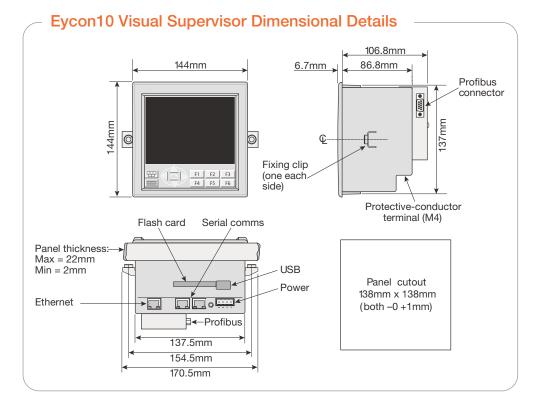
Environmental perform	mance	
Temperature limits	Opera	
Humidity limite	Stor Opera	age: -20 to +60°C tion: 5% to 85% RH (non condensing)
Humidity limits		age: 5% to 95% RH (non condensing)
Protection	Bezel and dis	
Shock:	leeve (rear of pa	BS EN61010
Vibration (10 to 150Hz):		BS EN60873, Section 9,18
Altitude:		<2000 metres
Approvals		
Electromagnetic compa	atibility CE. (EM	C)
Emissions and immunit		BS EN61326-1:2006
Electrical safety	,	Installation cat. II; pollution degree 2
(BS EN61010-1:2001)	:	
INSTALLATION CATE The rated impulse volta		nt on nominal 230V mains is 2500V.
	ductive pollutio	n occurs. Occasionally, however, a densation shall be expected.
Physical		
Panel mounting:		DIN43700
Panel mounting angle:		Vertical
Eycon10	Bezel size:	144 x 144mm
	ut dimensions:	138 x 138mm (both –0/+1mm) 86.8mm (106.8mm with Profibus option)
Depth	behind panel: Weight:	1.5kg (1.7kg with Profibus option)
Eycon20	Bezel size:	288 x 288mm
	ut dimensions: behind panel:	282 x 282mm (both –0/+1.3mm) 70mm (90mm with Profibus option)
Depth	Weight:	3.7kg (3.9kg with Profibus option)
Operator interface		
Type:		Colour TFT LCD, with cold cathode
		backlight, fitted with resistive, analogue, touch panel
Size and resolution	Eycon10: Eycon20:	1/4VGA (320 x 240 pixels) 5.5" XGA (1024 x 768 pixels) 12.1"
	Lyconzo.	AdA (1024 X 700 pixels) 12.1
Language support	n Spaniah Dut	tob Italian Dortuguase and other*
-	in, opanish, Du	tch, Italian, Portuguese and other*
Power requirements		10.0 to $00.0$ ( do $(0.1)$ ( do nominal)
Supply voltage: Powe consumed	Eycon10:	19.2 to 28.8V dc (24V dc nominal) 20W
r owe consumed	Eycon20:	24W
Operating current:		1A max.
Inrush current:		10A max.
Fuse:		No user replaceable fuses
Battery backup		
Туре:		Poly-carbonmonofluoride/lithium (BR2330)
Support time (RTC):		1 year min. with unit unpowered
Replacement period:		3 years
Stored data:		Hot start parameters
Data logging storage		
Internal archive:		45Mb flash memory
Data format:		ASCII (.asc) or compressed data (UHH)
Data compression:		Proprietary
Log frequency		1Hz max.
Ethernet communicat	ions	
Ethernet port:		10/100Mbps auto sensing
Protocols:		TCP/IP, FTP, DHCP, BOOTP, Modbus, Telnet
Cable Ma	Type: ximum length: Terminator:	CAT5 100 metres RJ45
Serial communication		
Ports:		2
Protocol:		Modbus RTU, master and slave
Transmission standard:		EIA422 or EIA485
Profibus master		
Termination:		9 way D-type
Protocol:		Profibus DPv1
Nodes supported:		124
Data rate:		
		Selectable between 9600 and 12M Baud
Isolation:		Selectable between 9600 and 12M Baud Functional

parity; 1 or 2 Used to talk Slave conner Slave Shielded RJ Modbus/JBU Selectable fr 8-bits, 1 or 2 Data tables 200 registers 20480 bytes Functional (con Series in dodbus slave 1.1 (2.0 devid 1 or 3 USB bulk st mouse, bar USB bulk st mouse, bar 145Kb 255Kb 181Kb 319Kb Table cources Max. no. lin	through only ctions 20 max 45 connector JS RTU slave rom 1200 to 38,400 baud 2 stop bits, selectable parity 64, configurable as registers or bits s or 999 bits 3 n order to enable use of Eurotherm devices without having to disconnect ces are compatible) brage devices ('Memory stick'), USB code reader, printers blation SFC 112Kb (Program Data resources), 73Kb (SFC resources) 56Kb (Program Data resources), 73Kb (SFC resources) 112Kb (Program Data resources), 73Kb (SFC resources) 28Kb (Program Data resources), 73Kb (SFC resources) 28Kb (Program Data resources), 19Kb (SFC resources)
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See Table	1
fault option)	
100 max.	
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	fault option) 512 max. 100 max. 50 max. 32 max. 512 max. 128 8 1024 S Program d. 10 50 160 600 300 255

Open communications

Device driven

Protocol:



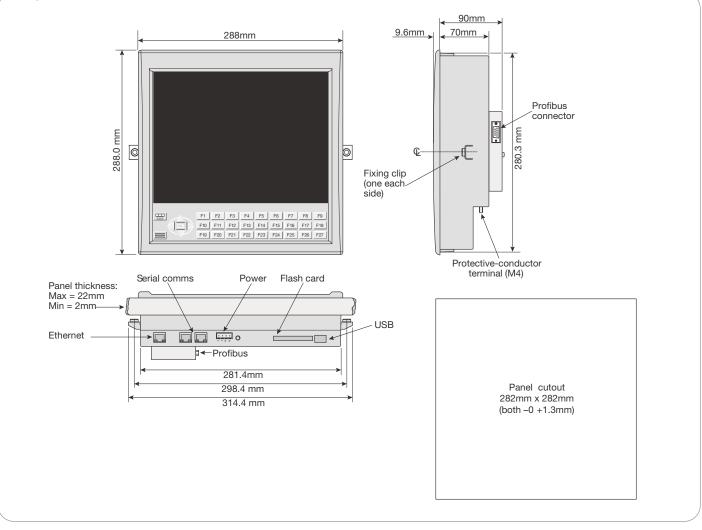
#### **Panel Mounting Details**

**Installed panel angle:** Vertical panels only.

**Minimum inter-unit spacing:** 50mm, vertical or horizontal.

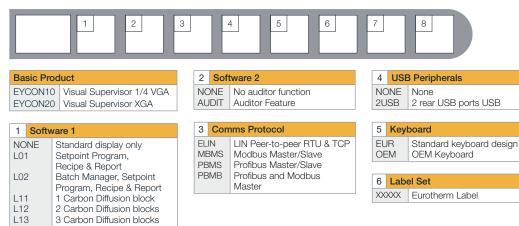
**Note:** Where multiple units are mounted in close proximity with one another, steps must be taken to ensure that the resulting ambient temperature does not exceed the specified maximum operating temperature of 50° Celsius.

#### Eycon20 Visual Supervisor Dimensional Details



# Order Code

L14



7	Technical Support	
TS	0	No support provided
TS	1	One hour support (default)
TS	2	1 hour Support
TS	4	4 hour Support
TS	8	8 hour Support

#### 8 Warranty

XXXXX Standard warranty WL005 5 years extended warranty

# Upgrade Order Code

4 Carbon Diffusion blocks



EYCON10 Visual Supervisor 1/4 VGA EYCON20 Visual Supervisor XGA

#### 2 Flash Card NONE No flash card software upgrade only

3	Cur	urrent Software 1	
NONE		Standard display only	
L0	1	Setpoint Program, Recipe	
		& Report	
LO	2	Batch Manager, Setpoint	
		Program, Recipe & Report	
L1	1	1 Carbon Diffusion block	
L1:	2	2 Carbon Diffusion blocks	
L1:	3	3 Carbon Diffusion blocks	
L1	4	4 Carbon Diffusion blocks	
4	Curr	rent Software 2	
NC	NE	No auditor funciton	

Auditor Features

AUDIT

# 5 Current Comms Protocol ELIN LIN Peer-to-peer RTU & TCP MBMS Modbus Master/Slave

6 Required Software 1				
NONE L01	Standard display only Setpoint Program, Recipe & Report			
L02	Batch Manager, Setpoint Program, Recipe & Report			
L11	1 Carbon Diffusion block			
L12	2 Carbon Diffusion blocks			
L13	3 Carbon Diffusion blocks			
L14	4 Carbon Diffusion blocks			

7 Required Software 2		
NO	NE	No auditor funciton
		Auditor Fastures

AUDIT Auditor Features

#### 8 Required Comms Protocol ELIN LIN Peer-to-peer RTU & TCP MBMS Modbus Master/Slave

# Accessories

B1	Battery for memory and RTC
MANUAL	Engineering manual
EY10KP	Eycon10 keypad insert
EY20KP	Eycon20 keypad insert
REVIEW	Review Full DVD
CF32	32M memory card
PROFADD	Profibus adder kit
USBADD	USB adder kit



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