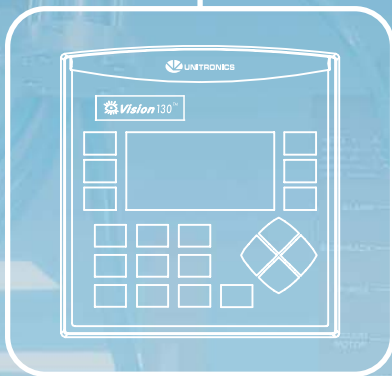
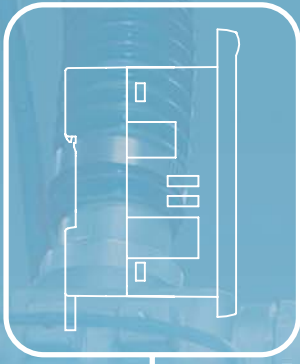


# The *Vision130*<sup>TM</sup> connects!

PLC, HMI & ONBOARD I/Os PLUS ETHERNET,  
SMS/GPRS, CANOPEN, MODBUS...



## PLC FEATURES

- Logic memory: 512K
- Scan time: 20µsec per 1K of typical application
- Up to 38 onboard I/Os; expandable up to 166
- I/O options include digital and analog I/Os, temperature measurement and weight inputs
- Recipe programming and datalogging
- Auto-tune PID: up to 24 independent loops

## HMI FEATURES

- 2.4" Graphic LCD display
- 1024 displays, 400 images per application
- Application memory: Images- 128K; Fonts- 128K
- 20 programmable keys, including 10 user-labeled keys

## COMMUNICATION OPTIONS\*

- Ethernet via TCP/IP
- MODBUS, CANopen & UniCAN
- GSM/SMS/GPRS
- Free Remote Access utilities
- Adaptable to most TCP/IP/serial protocols

\* 1 built-in RS232/RS485 port. Other communication ports are available by separate order.

# THE PERFECT FIT

VISION130™ IS AVAILABLE IN 6 MODELS,  
TO SUIT ANY APPLICATION

	V130-33-R2	V130-33-R34	V130-33-RA22	V130-33-T2	V130-33-T38	V130-33-TA24
	10 Digital Inputs 2 Analog/Digital Inputs 6 Relay Outputs	20 Digital Inputs 2 Analog/Digital Inputs 12 Relay Outputs	8 Digital Inputs 2 Analog/Digital Inputs 2 TC/PT/Digital Inputs <sup>1</sup> 8 Relay Outputs 2 Analog Outputs	10 Digital Inputs 2 Analog/Digital Inputs 12 Transistor Outputs	20 Digital Inputs 2 Analog/Digital Inputs 16 Transistor Outputs	8 Digital Inputs 2 Analog/Digital Inputs 2 TC/PT/Digital Inputs <sup>1</sup> 10 Transistor Outputs 2 Analog Outputs
<b>I/O</b>						
Digital Inputs <sup>1</sup> (maximum)	12 pnp/npn (source/sink) 24VDC	22 pnp/npn (source/sink) 24VDC	12 pnp/npn (source/sink) 24VDC	12 pnp/npn (source/sink) 24VDC	22 pnp/npn (source/sink) 24VDC	12 pnp/npn (source/sink) 24VDC
High-speed Counters/Shaft-Encoder/Frequency Measurer <sup>2</sup>	Three, 10 kHz 32 bit resolution	Three, 10 kHz 32 bit resolution	One, 10 kHz 32 bit resolution	Three, 10 kHz 32 bit resolution	Two, 10 kHz 32 bit resolution	One, 10 kHz 32 bit resolution
Analog Inputs <sup>1</sup>	Two 10 bit inputs: 0-10V, 0-20mA, 4-20mA	Two 10 bit inputs: 0-10V, 0-20mA, 4-20mA	Two 14 bit inputs: 0-10V, 0-20mA, 4-20mA and _____	Two 10 bit inputs: 0-10V, 0-20mA, 4-20mA	Two 10 bit inputs: 0-10V, 0-20mA, 4-20mA	Two 14 bit inputs: 0-10V, 0-20mA, 4-20mA and _____
Temperature Measurement <sup>1</sup>	None	None	2 PT100 or Thermocouple inputs	None	None	2 PT100 or Thermocouple inputs
Digital Outputs	6 relay outputs	12 relay outputs	8 relay outputs	12 pnp (source)	16 pnp (source)	10 pnp (source)
High-speed Outputs/PWM <sup>2</sup>	None	None	None	Seven, 2 kHz	Seven, 2 kHz	Five, 2 kHz
Analog Outputs	None	None	Two 12 bit outputs: 0-10V, 4-20mA	None	None	Two 12 bit outputs: 0-10V, 4-20mA
I/O Expansion	Up to 128 I/Os may be added via I/O expansion port (number of I/Os may vary according to expansion module)					
<b>Operator Panel</b>						
Display	128 x 64 pixels, Graphic STN LCD, White LED Backlight					
HMI Displays	1024 displays, 400 images per application					
Keyboard	20 programmable keys, including 10 user-labeled keys (customization slide-set is sold separately)					
<b>Program</b>						
Application Memory	Application Logic: 512K • Images: 128K • Fonts: 128K					
Scan Time	20µsec per 1K of typical application					
Memory Bits (Coils)	4096					
Memory Integers (Registers)	2048					
Long Integers (32-bit)	256					
Double Words (32-bit unsigned)	64					
Memory Floats	24					
Timers	192					
Counters	24					
Data Tables	120K dynamic data (recipe parameters, datalogs, etc'), 192K fixed data (read-only data, ingredient names, etc')					
Enhanced Programming Features	Trends: graph any value • String Library: Instantly switch HMI language • Fast Operands & Interrupts					
<b>Communication</b>						
RS232/RS485	1 built-in RS232/RS485 port (selectable)					
Optional port <sup>3</sup>	Ethernet (V100-17-ET2)	or	RS232/RS485 (V100-17-RS4)	or	RS232/RS485 (isolated) (V100-17-RS4X)	
CANbus port <sup>3</sup> (optional)	1 isolated port (V100-17-CAN). Supports CANopen, UniCAN and CAN Layer 2					
MODBUS	Supports MODBUS protocol, Master/Slave					
GPRS	Programming, data acquisition and SMS, via wireless data transmission					
GSM	SMS messages to/from any quantity of phone numbers					
<b>General</b>						
PID	Up to 24 independent PID loops, including internal auto-tune, ramp-soak programmer and bumpless transfer					
Power supply	24VDC					
Battery back-up	7 years typical at 25°C					
Dimensions	External: 109 x 114 x 68 mm (4.29" x 4.49" x 2.67") ; Cut-out: 92 x 92 mm (3.622" x 3.622")					
Environment	IP65/NEMA4X (for panel, when mounted)					

<sup>1</sup> Certain inputs can function as either digital, analog, thermocouple or PT100 (model-dependent). Using those inputs, regardless of the combination among analog, thermocouple and PT100, will reduce the amount of free digital inputs.

<sup>2</sup> Certain inputs can function as high-speed counters, shaft-encoder inputs, frequency measurers or normal digital inputs. In some of the models certain outputs can function as high-speed/PWM outputs or normal digital outputs.

<sup>3</sup> Available by separate order.

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