VISION 130TM Palm-size, powerful PLC with built-in, black & white LCD 3.5" graphic display, keypad, & onboard I/O configuration, expand up to 256 I/Os

Features:

HMI

- 1024 user-designed screens
- 400 images per application
- HMI graphs & Trends
- · Built-in alarm screens
- Text String Library easy localization
- Memory and communication monitoring via HMI - No PC needed

PLC

- I/O options include high-speed, temperature & weight measurement
- Auto-tune PID, up to 24 independent loops
- Recipe programs and datalogging via Data Tables
- Micro SD card log, backup, clone & more
- Date & Time-based control

Communication

- TCP/IP via Ethernet
- Web server: Use built-in HTML pages, or design complex pages to view and edit PLC data via the Internet
- Send e-mail function
- SMS messaging
- GPRS/GSM
- · Remote Access utilities
- MODBUS protocol support
- CANbus: CANopen, UniCAN, J1939 and more
- DF1 Slave
- SNMP Agent V1
- FB Protocol Utility: enables serial or TCP/IP communications with 3rd-party device; barcode readers, frequency converters, etc
- Ports: supplied with 1 RS232/RS485; 2 ports may be added: 1 Serial/Ethernet/Profibus and 1 CANbus



V130-J Flat Panel



V130 **Classic Panel**

The perfect solution for our need, the Vision130[™] is easy to program, user-friendly and backed up with responsive tech support. **77**

Michael Lamore, President of Barrier1

| | | V130 | | | | | | | | | | |
|--|-------------------------|---|---|--|---|--|--|---|---|---|---|--|
| Article | Classic Panel | V130-33-B1 | V130-33-TR20 | V130-33-R34 | V130-33-TR34 | V130-33-TR6 | V130-33-RA22 | V130-33-TRA22 | V130-33-T2 | V130-33-T38 | V130-33-TA24 | |
| Number | Flat Panel | V130-J-B1 | V130-J-TR20 | V130-J-R34 | V130-J-TR34 | V130-J-TR6 | V130-J-RA22 | V130-J-TRA22 | V130-J-T2 | V130-J-T38 | V130-J-TA24 | |
| | | No onboard I/Os | 10 Digital 2 D/A Inputs ¹ 6 Relay Outputs 2 High-speed Transistor Outputs | 20 Digital 2 D/A Inputs ¹ 12 Relay Outputs | 20 Digital 2 D/A Inputs ¹ 8 Relay 4 High speed Transistor Outputs | 6 Digital, 2 D/A 4 Analog Inputs ¹ 6 Relay Outputs 2 High-speed Transistor Outputs | 8 Digital 2 D/A, 2 PT100/TC/ Digital ¹ Inputs 8 Relay 2 Analog Outputs | 8 Digital, 2 D/A 2 PT100/TC/ Digital ¹ Inputs 4 Relay, 2 Analog 4 High-speed Transistor Outputs | 10 Digital 2 D/A Inputs ¹ 12 Transistor Outputs | 20 Digital 2 D/A Inputs ¹ 16 Transistor Outputs | 8 Digital 2 D/A, 2 PT100/ TC/Digital ¹ Inputs 10 Transistor 2 Analog Outputs | |
| Inputs | | | | | | · | | | | | | |
| Digital pnp/npn | | None | 12 | 22 | 22 | 8 | 12 | 12 | 12 | 22 | 12 | |
| HSC/Shaft-Encoder/ Max. Freq. Measurer ^{2&3} | | | 3 200kHz ⁴ 32-bit | 3 30kHz 32-bit | 3 200kHz ⁴ 32-bit | 1 200kHz ⁴ 32-bit | 1 30kHz 32-bit | 1 200kHz ⁴ 32-bit | 3 30kHz 32-bit | 2 30kHz 32-bit | 1 30kHz 32-bit | |
| Analog | | | 2 10-bit, 0-10V 0-20mA 4-20mA | 2 10-bit, 0-10V 0-20mA 4-20mA | 2 10-bit,0-10V 0-20mA 4-20mA | 2 10-bit, 0-10V 0-20mA, 4-20mA and 4 10-bit, 0-20mA 4-20mA | 2 14-bit 0-10V, 0-20mA 4-20mA | 2 (2 modes) Normal: 14-bit Fast: 12-bit 0-10V, 0-20mA 4-20mA | 2 10-bit 0-10V 0-20mA 4-20mA | 2 10-bit 0-10V, 0-20mA 4-20mA | 2 (2 modes) Normal:14-bit Fast: 12-bit 0-10V, 0-20MA, 4-20MA | |
| Temperature Measurement | | | None | None | None | None | and 2 PT100/TC | and 2 PT100/TC | None | None | and 2 PT100/TC | |
| Outputs | | None | | | | | | | | | | |
| Digital | | | 6 relay | 12 relay | 8 relay | 6 relay | 8 relay | 4 relay | 12 pnp | 16 pnp | 10 pnp | |
| High-Speed Outputs/PWM | | | 2 npn (2 PTO) 200kHz max | None | 4 npn (3 PTO) 200kHz max | 2 npn (2 PTO) 200kHz max | None | 4 npn (2 PTO) 200kHz max | 7 0.5kHz | 7 0.5kHz | 5 0.5kHz | |
| Analog | | | None | None | None | None | 2 12-bit 0-10V, 4-20mA | 2 12-bit 0-10V, 4-20mA | None | None | 2 12-bit 0-10V, 4-20mA | |
| I/O Expansion | | Local or Remote I/Os may be added via expansion port or via CANbus | | | | | | | | | | |
| Program | | | | | | | | | | | | |
| Application Memory | | Application Logic: 512K • Images: 256K • Fonts: 128K | | | | | | | | | | |
| Scan Time | | 20µ sec per 1K of typical application | | | | | | | | | | |
| Memory Operands | | 4096 coils, 2048 registers, 256 long integers (32-bit), 64 double words (32-bit unsigned), 24 floats, 192 timers (32-bit), 24 counters Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words | | | | | | | | | | |
| Data Tables | | 120K dynamic RAM data (recipe parameters, datalogs, etc.), up to 256K fixed data | | | | | | | | | | |
| SD Card (Micro) | | Store datalogs, Alarm History, Data Tables, Trend data, export to Excel • Back up Ladder, HMI & OS, clone PLCs | | | | | | | | | | |
| Enhanced Features | | Trends: graph any value and display on HMI • Built-in Alarm management system • String Library: instantly switch HMI language | | | | | | | | | | |
| Operator Panel | | | | | | | | | | | | |
| Туре | | Graphic STN LCD, white LED backlight | | | | | | | | | | |
| Display | | Resolution: 128 x 64 pixels • Size: 2.4" | | | | | | | | | | |
| Keys | | 20, including 10 user labeled keys (slide kit sold separately) | | | | | | | | | | |
| Genera | | | | | | | | | | | | |
| Power Supply | | | 24VDC, except for V130-33-B1, which is 12/24VDC | | | | | | | | | |
| Battery | | 7 years typical at 25°C, battery back-up for all memory sections and RTC | | | | | | | | | | |
| Clock | | Real-time clock functions (date and time) | | | | | | | | | | |
| Environment | | IP66/IP65/NEMA4X (when panel mounted) | | | | | | | | | | |
| Standard | | CE, UL Many of our products are also UL Class 1 Div 2 and GOST certified - please contact Unitronics | | | | | | | | | | |
| 1 In these mo | dels certain innuts are | adaptable, and can f | unction as either digita | | | n as high-speed counter | | | | | | |

¹ In these models certain inputs are adaptable, and can function as either digital, analog, and in certain models also as thermocouple or PT100. Using adaptable inputs reduces the amount of free digital inputs. For example, V130-33-RA22 offers 12 digital inputs. Implementing 2 TC inputs requires 4 digital inputs, leaving 8 free. ² Certain inputs can function as high-speed counter shaft-encoder inputs, or normal digital inputs.

³ This specification depends on cable length.

⁴ This specification depends upon driver type.