



Vision 120™ OPLC™

Graphic Operator Panel and Programmable Logic Controller

All V120 OPLC™ include: Graphic display, up to 12 PID loops¹ with Auto-tune, 2 RS232/RS485 ports (selectable), MODBUS Master and slave, GSM/CDMA support, Real-Time Clock functions and 192 Timers.

Article Number	V120-22-R1	V120-22-R34 ⁴	V120-22-R2C	V120-22-R6C	V120-22-T2C	V120-22-T1	V120-22-T38 ⁴	V120-22-UN2	V120-22-UA2	V120-22-RA22 ⁴
Power supply	12/24VDC	24VDC	12/24VDC	24VDC	12/24VDC	12/24VDC	24VDC	12/24VDC	24VDC	24VDC
Digital inputs	10 pnp/npn (source/sink) 12/24VDC	22 ² pnp/npn (source/sink) 24VDC	10 pnp/npn (source/sink) 12/24VDC	6 pnp/npn (source/sink) 24VDC	12 ² pnp/npn (source/sink) 12/24VDC	12 pnp/npn (source/sink) 12/24VDC	22 pnp/npn (source/sink) 24VDC	12 ² pnp/npn (source/sink) 12/24VDC	12 ² pnp/npn (source/sink) 24VDC	12 ² pnp/npn (source/sink) 24VDC
High-speed counter/ Shaft-encoder/ Frequency measurer ³	Three 10 kHz, 32 bit resolution	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	Two 10 kHz, 32 bit resolution	Two 10 kHz, 32 bit resolution	One 10 kHz, 32 bit resolution	One 10 kHz, 32 bit resolution
Analog input types	One 10 bit input: 0-10V, 0-20mA, 4-20mA	Two ² 10 bit inputs: 0-10V, 0-20mA, 4-20mA	Two 10 bit inputs: 0-10V, 0-20mA, 4-20mA	Six 10 bit inputs: Two 0-10V, 0-20mA, 4-20mA Four 0-20mA, 4-20mA	Two ² 10 bit inputs: 0-10V, 0-20mA, 4-20mA	None	None	Two ² 14 bit inputs: 0-10V, 0-20mA, 4-20mA	Two ² 14 bit inputs: 0-10V, 0-20mA, 4-20mA	Two ² 14 bit inputs: 0-10V, 0-20mA, 4-20mA and
Temperature measurement	None	None	None	None	None	None	None	Two ² PT100 or Thermocouple inputs	Two ² Thermocouple inputs	Two ² PT100 or Thermocouple inputs
Digital outputs	6 relay outputs	12 relay outputs	6 relay outputs	6 relay outputs	12 pnp (source)	12 pnp (source)	16 pnp (source)	12 pnp (source)	10 pnp (source)	8 relay outputs
High-speed outputs/ PWM	None	None	None	None	First 2 outputs can function as HSO, 2 kHz maximum					None
Analog outputs	None	None	None	None	None	None	None	None	Two 12 bit Outputs: 0-10V, 4-20mA	Two 12 bit Outputs: 0-10V, 4-20mA
CANbus port	None	None	Yes			None	None	None	None	None
CANopen	None	None	CANopen Master, supports PDO and NMT, including RTR and SYNC			None	None	None	None	None
UniCAN	None	None	Multi-master CANbus network of 60 controllers, up to 1024 bytes per program scan			None	None	None	None	None
Application memory	448K									
Data tables	120K (RAM) / 120K (FLASH)									

¹ PID FB includes internal Auto-tune (shares memory with other FBs).

² In these models certain inputs can function as either digital, analog, thermocouple or PT100 inputs (model-dependent). Using those inputs, regardless of the combination among analog, thermocouple and PT100, will reduce the amount of free digital inputs.

³ Certain digital inputs can function as high-speed counters, shaft-encoder inputs, frequency measurers or normal digital inputs.

⁴ V120-22-R34, V120-22-T38 and V120-22-RA22 are not yet UL certified.