

# Comparison Table

	V120-22-R1	V120-22-R2C	V120-22-R6C	V120-22-T1	V120-22-T38	V120-22-T2C	V120-22-UN2	V120-22-UA2
	10 Digital Inputs 6 Relay Outputs 1 Analog Input	10 Digital Inputs 6 Relay Outputs 2 Analog Inputs	6 Digital Inputs 6 Relay Outputs 6 Analog Inputs	12 Digital Inputs 12 Transistor Outputs	22 Digital Inputs 16 Transistor Outputs	10 Digital Inputs 12 Transistor Outputs 2 Analog/Digital Inputs*	10 Digital Inputs 12 Transistor Outputs 2 PT100/TC/Analog/Digital Inputs*	10 Digital Inputs 10 Transistor Outputs 2 TC/Analog/Digital Inputs* 2 Analog Outputs
<b>I/Os</b>								
Digital Inputs	10 pnp/npn (source/sink) 12/24VDC	10 pnp/npn (source/sink) 12/24VDC	6 pnp/npn (source/sink) 24VDC	12 pnp/npn (source/sink) 12/24VDC	22 pnp/npn (source/sink) 24VDC	12* pnp/npn (source/sink) 12/24VDC	12* pnp/npn (source/sink) 12/24VDC	12* pnp/npn (source/sink) 24VDC
High-speed counter/ Shaft-encoder/ Frequency measurer**	Three 10 kHz 32 bit resolution	Three 10 kHz 32 bit resolution	One 10 kHz 32 bit resolution	Two 10 kHz 32 bit resolution	Two 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	One 10 bit input: 0-10V, 0-20mA, 4-20mA	Two 10 bit input: 0-10V, 0-20mA, 4-20mA	Six 10 bit input: Two 0-10V, 0-20mA, 4-20mA, Four 0-20mA, 4-20mA	None	None	Two 10 bit inputs*: 0-10V, 0-20mA, 4-20mA	Two 14 bit inputs*: 0-10V, 0-20mA, 4-20mA	Two 14 bit inputs*: 0-10V, 0-20mA, 4-20mA
Temperature measurement	None	None	None	None	None	None	Two PT100 or Thermocouple inputs*	Two Thermocouple inputs*
Digital Outputs	6 relay outputs	6 relay outputs	6 relay outputs	12 pnp (source)	16 pnp (source)	12 pnp (source)	12 pnp (source)	10 pnp (source)
High-speed Outputs/ PWM	None	None	None	First 2 outputs can function as HSO, 2 kHz maximum				
Analog Outputs	None	None	None	None	None	None	None	Two 12 bit Outputs, 0-10V, 4-20mA
I/O Expansions	Up to 128 I/Os may be added via I/O expansion port							
<b>Operator panel</b>								
Screen Type	Graphic STN LCD, LED backlight							
Display Resolution	128 x 64 pixels							
HMI Displays	Up to 255							
Keyboard	16 sealed membrane keys, including 15 programmable keys							
<b>Program</b>								
Application memory	448K							
Bits/Coils	2048							
Integers/Registers	1600							
Long Integers (32 bit)	256							
Double Word (32 bit unsigned)	64							
Floats	24							
Timers (32 bit)	192							
Counters	24							
Data Tables	120K (RAM) / 64K (FLASH)							
Execution Time for bit Operation	0.8µsec							
<b>Communication</b>								
Serial communication	2 RS232/RS485 ports (selectable)							
MODBUS	Supports MODBUS protocol, Master/Slave							
GSM/CDMA	SMS messages to/from up to 8 phone numbers							
CANbus	None	1 port	1 port	None	None	1 port	None	None
<b>General</b>								
Power Supply	12/24VDC	12/24VDC	24VDC	12/24VDC	24VDC	12/24VDC	12/24VDC	24VDC
PID	Up to 24 independent PID loops							
Clock (RTC)	Real-time clock functions (date and time)							
Battery Back-up	7 year typical							
Dimensions	96 x 96 x 64 mm (3.78" x 3.78" x 2.52")							
Environment	IP65/NEMA4X (from panel, when mounted)							

\* In these models certain inputs can function as either digital, analog, thermocouple or PT100 inputs (model dependent).  
When using these inputs as thermocouple or PT100, the number of free digital inputs is reduced to 8 or 7, respectively.

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

