

Still using text display ?

**PLC HMI I/O**  
**IN ONE UNIT**

3.5"



4.3"



7"

**NEW**



## it's SAMBA time!

**Improve your competitive advantage.  
Great look - incredible price.**

### PLC features

- I/O options: Digital, Analog, including High-speed
- Auto-tune PID, 2 independent loops
- Recipe programs and data logging via Data Tables
- Time-based control in 3 clicks

### HMI features

- Display: Color touch-screen  
3.5" 320x240 | 4.3" 480x272 | 7" 800x480
- HMI graphs - color-code Trends
- Built-in alarm screens
- Text String Library - easy localization
- Troubleshoot via the HMI panel - no PC needed

### Communication features

- GPRS/GSM
- TCP/IP via Ethernet
- SMS messaging, Send e-mail function
- Remote Access utilities
- MODBUS protocol support
- CANbus: CANopen, UniCAN, SAE J1939 and more...
- DF1 Slave
- Ports: RS232 programming port in 3.5" model and USB programming port in 4.3" model; 2 ports may be added:  
1 Serial (RS232/RS485)/Ethernet & 1 CANbus



Article Number	SM35-J-R20 SM43-J-R20 SM70-J-R20 <small>NEW</small>	SM35-J-T20 SM43-J-T20 SM70-J-T20 <small>NEW</small>
	10 Digital Inputs 2 Digital /Analog <sup>1</sup> 8 Relay Outputs	10 Digital Inputs 2 Digital /Analog 8 Transistor Outputs
<b>Inputs</b>		
Digital	12	12
HSC/Shaft-Encoder/Max. Freq. Measurer <sup>2,3</sup>	1 32-bit 30 kHz 2 10-bit	3 32-bit 30 kHz 2 10-bit
Analog	0-10v 0-20mA, 4-20mA	0-10v 0-20mA, 4-20mA
<b>Outputs</b>		
Digital	8 relay	8 pnp
High-Speed Outputs/PWM	None	Outputs 0 to 6 can be used as PWM outputs 0.5 kHz
<b>I/O Expansion</b>		
	Remote I/Os via CANbus	
<b>Program</b>		
Application Memory	SM35 Application Logic — 112kb, Images: 1 MB, Fonts: 512 k SM43 Application Logic — 112kb, Images: 2 MB, Fonts: 512 k <small>NEW</small> SM70 Application Logic — 112kb, Images: 5 MB, Fonts: 512 k	
Scan Time	15µS per 1K of typical application	
Memory Operands	512 coils, 256 registers, 32 long integers (32-bit), 32 double words (32-bit unsigned), 24 floats, 32 timers (32-bit), 16 counters. Additional non-retainable operands: 64 X-bits, 32 X-integers, 16 X-long integers, 16 X-double words	
Data Tables	32K dynamic RAM data (recipe parameters, dataloggs, etc.), up to 16K Flash data	
SD Card (Micro)	None	
Enhanced Features	Trends: graph any value and display on HMI, String Library: instantly switch HMI language	
<b>Operator Panel</b>		
Type & Colors	TFT LCD, 65,536 colors, 16 bit resolution, Brightness - Adjustable via touchscreen or software	
Display	SM35 Resolution: 320 x 240 pixels, Size: 3.5" (QVGA) SM43 Resolution: 480 x 272 pixels, Size: 4.3" <small>NEW</small> SM70 Resolution: 800 x 480 pixels, Size: 7"	
Touchscreen	Resistive, Analog	
Keys	Displays virtual keyboard when the application requires data entry	
<b>General</b>		
Power Supply	24VDC	
Battery	7 years typical at 25°C, battery back-up for RTC and system data, including variable data	
Environment	IP66/IP65/NEMA4X (when panel mounted)	
Clock	Real-time clock functions (date and time)	

**Integrated HMI/PLC software**

**FREE**

**Unlimited tech support**

**FREE**

#### Additional COM Modules

Isolated RS232/RS485 V100-17-RS4X	RS232/RS485 V100-17-RS4	Ethernet V100-17-ET2	CANbus V100-17-CAN
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Distributors

1. When selecting NPN for the digital inputs, the 2 Analog inputs cannot be used.
2. Certain inputs can function as high-speed counters, shaft-encoder inputs, or normal digital inputs.
3. This specification depends on cable length.