

HMI and touchscreen control capabilities

At Tecnologic we recognise the need for expanding the capabilities of our controllers, with extended functions, whilst making them even easier to use at affordable levels.

Using our controllers RS485 Modbus communications option we can connect multiple instruments to an intelligent, programmable display that can both display and send commands to our controllers, adding almost unlimited control capabilities to our TLK controller family.

FEATURES

Our touchscreen solutions allows our controllers to:

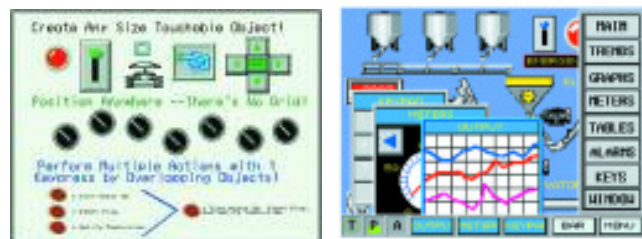
- Be hidden away from view
- Create colour, pictorial, easy to understand text based screens to your design
- Connect over 30 controllers to each touch screen
- Screens can be password protected

Perform control functions based on:

- Real time and date
- Timed sequences
- Events taken from its volt free contact inputs
- Logic sequences
- Run stored recipes (setpoint profiling)
- Temperature or alarm conditions

Other features:

- Display calculated values between Sensors (humidity, dew-point, average, differential, energy usage, Kwh, etc)
- Datalogging to internal memory
- Connect to a printer for job records
- Connect to a computer network
- Display messages and details of alarms or faults
- Automatic configuration of replacement controllers
- Can talk and display data from additional PLC's and control devices



If you are using PID control or need to connect with temperature sensors, this solution can be simpler and cheaper than using a PLC based solution. Our units accept most sensor types directly in and provide large 8 amp relays and high current logic outputs without the need for external modules. In addition to this our instruments already have intelligence built in providing amongst other things various control and alarm strategies. As a result of this added intelligence software development costs can also be relatively low when compared to an equivalent PLC based solution.



Graphic programmable display

This compact backlit monochrome Graphic display with keypad is ideal for OEM applications because of its low price and extensive facilities. The configuration software allows imports of images from bitmaps, or from the 500 images in its library whilst data can be displayed graphically (bar, analogue meters) or just in text.

An internal buzzer can be triggered by an alarm or event from its real time clock.



FEATURES

- BACKLIT GRAPHIC DISPLAY
- INTEGRAL BUZZER
- COMPACT SIZE
- INTEGRAL KEYPAD
- MAX 999 SCREENS
- OPTIONAL MEMORY STICK
- REAL TIME CLOCK
- IMPORT PICTURES/ICONS
- BAR GRAPH/ METERS OR TEXT

SPECIFICATION

- STN graphic LED backlight
- 128 x 64 Pixels (67mm x 32mm)
- Modbus and other protocol options
- Drivers for Tecnologic, Siemens, Omron, Koyo, Allen Bradley, Scheider
- RTC battery backed
- 5 user definable keys
- IP65 facia
- 1 x RS232/422 + 1 x RS485 communications ports
- 24vdc 3.5w supply
- Dimensions 147w x 97h x 41mm deep

PART CODES

DESCRIPTION

PRICE (£)

		PRICE (£)	
		1 - 4	5 +
HMI-BLU300M-001	Graphic STN monochrome display	POA	POA
HMI-BLUELEAF	Configuration software	POA	POA
HMI-7902-0001	Program Upload / Download memory stick	POA	POA
HMI-7431-0102	Configuration cable	POA	POA
HMI-4010-005	24vdc Power supply 25W	POA	POA

IDEAL FOR USE WITH INTELLIGENT INPUT/OUTPUT MODULES

5.6" to 10.4" colour touchscreens

Probably the most affordable range of quality colour touchscreens available, with 2 year guarantee as standard. Macro functions allow complex control functions in addition to its unparalleled display capabilities, especially when using our control devices. Graphics, real time clock, printer output, recipes, trend graphs, datalogging and drivers for most mainstream PLC's make this the best value colour HMI available.



FEATURES

- COLOUR LCD TOUCHSCREEN
- 500 PREDEFINED GRAPHICS
- 2 YEAR GUARANTEE
- 5.6" TO 10.4" SIZE
- IMPORT GRAPHICS OR PICTURES
- EVENT DATALOGGING
- REAL TIME CLOCK
- MACRO FOR CONTROL FUNCTIONS
- MAX 1990 SCREENS

SPECIFICATION

- Display TFT 256 colour or STN 4 colour
- 1 x RS232/485 + 1 x RS232
- Ethernet TC/IP option
- 200Mhz 32 RISC bit processor
- DISPLAY CHARACTERISTICS: 5.7" 320 x 240 pix 4 colour, 5.6" 320 x 234 pix, 7.7" 640 x 480 pix, 10.4" 640 x 480 pix
- DIMENSIONS: 204x 150x48mm, 204x150x48mm, 231x176x55mm, 315x238x62mm
- DISPLAY CONTRAST: 15.1, 150.1, 250.1, 300.1
- 2mb/4mb user memory
- IP 65 Facia
- 24vdc Supply

IDEAL FOR USE WITH INTELLIGENT INPUT/OUTPUT MODULES

PART CODES	DESCRIPTION	PRICE (£)	
		1 - 4	5 +
HHMI-520M-006	5.7" 4 colour STN touchscreen, 2 mb	POA	POA
HMI-520T-007	5.6" 256 colour TFT touchscreen, 2 mb	POA	POA
HMI-530T-006	7.7" 256 colour TFT touchscreen, Printer output, 2 mb	POA	POA
HMI-550H-005	10.4" 256 colour TFT touchscreen, Printer output, 2 mb	POA	POA
	Below have expanded memory to 4mb, Ethernet TC/IP and compact flash reader options		
HMI-520T-007E	5.6" 256 colour TFT touchscreen, 4 mb, Ethernet TC/IP, compact flash	POA	POA
HMI-530T-006E	7.7" 256 colour TFT touchscreen, Printer output, 4 mb, Ethernet TC/IP, compact flash	POA	POA
HMI-550H-005E	10.4" 256 colour TFT touchscreen, Printer output, 4 mb, Ethernet TC/IP compact flash	POA	POA
Accessories			
HMI-500-CONF SW	Configuration software	POA	POA
HMI-7431-0098	Configuration cable	POA	POA
HMI-4010-0005	24vdc 25w power supply HMI 520	POA	POA
HMI-4010-0006	24vdc 60w power supply HMI 530 and 550	POA	POA
HMI-7431-0105	Printer adaptor for HMI-520	POA	POA
HMI-2203-0007	Compact flash 64mb	POA	POA
HMI-2203-0002	Protective screen covers (5) for 5.7"	POA	POA
HMI-2203-0003	Protective screen covers (5) for 7.7"	POA	POA
HMI-2203-0004	Protective screen covers (5) for 10.4"	POA	POA

Intelligent input/output modules

Our TLK Intelligent Input Output expansion units offer a low cost way of expanding a PLC or HMI's inputs and outputs whilst adding functions like PID control and alarms. On-board signal conditioning allows most types of sensors to be directly connected and outputs can be controlled over the RS485 communications. Internal control and alarm functions will continue to work even if the communications fail, providing a very stable environment for important processes.



FEATURES

- 3 RELAY OR LOGIC OUTPUTS
- PID HEAT/COOL WITH AUTOTUNE
- RS485 2 WIRE COMMUNICATIONS
- 1 PROGRAMMABLE INPUT
- PROCESS RAMP AND DWELL
- 4 DIGIT DISPLAY
- 2 VOLT FREE LOGIC INPUTS
- PROGRAMMABLE ALARMS, INTEGRAL TIMER

SPECIFICATION

- COMMS: Modbus RTU Protocol
- SUPPLY: 24vac/dc or 100-240vac 50/60hz
- DIMENSIONS: Din Rail Mounting
- 70w x 84h x 60mm deep
- 1200-38400 baud (max) Programmable
- OUTPUT RELAYS: 8A AC1 Logic 10v 30mA
- INPUT: 130ms sample time, T/C, PT100, PTC, NTC, mA, vdc
- ACCURACY: 0.5% of full scale
- UL and CSA Approved

IDEAL FOR USE WITH 5.6" TO 10.4" SCREENS AND GRAPHIC DISPLAYS

PART CODES	DESCRIPTION	PRICE (£)	
		1 - 9	10 +
TLK35-HCORR-SI-T	T/C, PT100, mV+ 2 logic inputs, 1 x Logic + 2 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HCRRR-SI-T	T/C, PT100, mV+ 2 logic inputs, 3 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HCOOR-SI-T	T/C, PT100, mV+ 2 logic inputs, 2 x Logic + 1 Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HC000-SI-T	T/C, PT100, mV+ 2 logic inputs, 3 x Logic outputs, RS485, 100-240vac	POA	POA
TLK35-HEORR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 1 x Logic + 2 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HERRR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 3 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HEOOR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 2 x Logic + 1 Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HE000-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 3 x Logic outputs, RS485, 100-240vac	POA	POA
TLK35-HVORR-IS-T	0/2/5-10vdc + 2 logic inputs, 1x Logic + 2 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HVRRR-IS-T	0/2/5-10vdc + 2 logic inputs, 3 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HVOOR-IS-T	0/2/5-10vdc + 2 logic inputs, 2 x Logic + 1 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HV000-IS-T	0/2/5-10vdc + 2 logic inputs, 3 x Logic outputs, RS485, 100-240vac	POA	POA
TLK35-HIORR-IS-T	0/4-20mA + 2 logic inputs, 1x Logic + 2 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HIRRR-IS-T	0/4-20mA + 2 logic inputs, 3 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HIOOR-IS-T	0/4-20mA + 2 logic inputs, 2 x Logic + 1 x Relay outputs, RS485, 100-240vac	POA	POA
TLK35-HI000-IS-T	0/4-20mA + 2 logic inputs, 3 x Logic outputs, RS485, 100-240vac	POA	POA
TLK35-LCORR-SI-T	T/C, PT100, mV+ 2 logic inputs, 1 x Logic + 2 x Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LCRRR-SI-T	T/C, PT100, mV+ 2 logic inputs, 3 x Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LCOOR-SI-T	T/C, PT100, mV+ 2 logic inputs, 2 x Logic + 1 Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LC000-SI-T	T/C, PT100, mV+ 2 logic inputs, 3 x Logic outputs, RS485, 24vac/dc	POA	POA
TLK35-LEORR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 1 x Logic + 2 x Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LERRR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 3 x Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LEOOR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 2 x Logic + 1 Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LE000-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 3 x Logic outputs, RS485, 24vac/dc	POA	POA
TLK35-LVORR-IS-T	0/2/5-10vdc + 2 logic inputs, 1x Logic + 2 x Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LVRRR-IS-T	0/2/5-10vdc + 2 logic inputs, 3 x Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LVOOR-IS-T	0/2/5-10vdc + 2 logic inputs, 2 x Logic + 1 x Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LV000-IS-T	0/2/5-10vdc + 2 logic inputs, 3 x Logic outputs, RS485, 24vac/dc	POA	POA
TLK35-LIORR-IS-T	0/4-20mA + 2 logic inputs, 1x Logic + 2 x Relay outputs, RS485, 24vac/dc	POA	POA
TLK35-LIRRR-IS-T	0/4-20mA + 2 logic inputs, 3 x Relay outputs, RS485, 24vac/dc	POA	POA

Intelligent input/output modules

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Internal control and alarm functions will continue to work even if the communications fail, providing a very stable environment for important processes.



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- PID HEAT/COOL WITH AUTOTUNE
- RS485 2 WIRE COMMUNICATIONS
- 1 PROGRAMMABLE INPUT
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- 4 DIGIT DISPLAY
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- PROGRAMMABLE ALARMS, INTEGRAL TIMER

SPECIFICATION

COMMS: Modbus RTU Protocol
 SUPPLY: 24vac/dc or 100-240vac 50/60hz
 DIMENSIONS: Din Rail Mounting
 70w x 84h x 60mm deep
 1200-38400 baud (max) Programmable
 OUTPUT RELAYS: 8A AC1 Logic 10v 30mA
 INPUT: 130ms sample time, T/C, PT100, PTC, NTC, mA, vdc
 ACCURACY: 0.5% of full scale
 UL and CSA Approved

PART CODES	DESCRIPTION	PRICE (£)	
		1 - 9	10 +
TLK32-CORRR-SI-T	T/C, PT100, mV+ 2 logic inputs, 1 x Logic + 3 Relay outputs, RS485	POA	POA
TLK32-CRRRR-SI-T	T/C, PT100, mV+ 2 logic inputs, 4 x Relay outputs, RS485	POA	POA
TLK32-COORR-SI-T	T/C, PT100, mV+ 2 logic inputs, 2 x Logic + 2 Relay outputs, RS485	POA	POA
TLK32-CO000-SI-T	T/C, PT100, mV+ 2 logic inputs, 4 x Logic outputs, RS485	POA	POA
TLK32-EORRR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 1 x Logic + 3 Relay outputs, RS485	POA	POA
TLK32-ERRRR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 4 x Relay outputs, RS485	POA	POA
TLK32-EOORR-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 2 x Logic + 2 Relay outputs, RS485	POA	POA
TLK32-E0000-SI-T	T/C, PTC, NTC, mV+ 2 logic inputs, 4 x Logic outputs, RS485	POA	POA
TLK32-VORRR-IS-T	0/2/5-10vdc + 2 logic inputs, 1x Logic + 3 Relay outputs, RS485	POA	POA
TLK32-VRRRR-IS-T	0/2/5-10vdc + 2 logic inputs, 4 x Relay outputs, RS485	POA	POA
TLK32-VOORR-IS-T	0/2/5-10vdc + 2 logic inputs, 2 x Logic + 2 Relay outputs, RS485	POA	POA
TLK32-V0000-IS-T	0/2/5-10vdc + 2 logic inputs, 4 x Logic outputs, RS485	POA	POA
TLK32-IORRR-IS-T	0/4-20mA + 2 logic inputs, 1 x Logic + 3 Relay outputs, RS485	POA	POA
TLK32-IRRRR-IS-T	0/4-20mA + 2 logic inputs, 4 x Relay outputs, RS485	POA	POA
TLK32-IOORR-IS-T	0/4-20mA + 2 logic inputs, 2 x Logic + 2 Relay outputs, RS485	POA	POA
TLK32-I0000-IS-T	0/4-20mA + 2 logic inputs, 4 x Logic outputs, RS485	POA	POA

IDEAL FOR USE WITH 5.6" TO 10.4" SCREENS AND GRAPHIC DISPLAYS

TDA input expansion

Our TDA intelligent input expansion units offer a low cost way of expanding a PLC or HMI's inputs whilst adding a single independent alarm output which will still work even if communications are lost.

A single unit can accept up to 8 analogue plus 4 logic inputs and all have a single programmable alarm relay output.



FEATURES

- 8 ANALOGUE INPUTS (MAX)
- ALARM RELAY OUTPUT
- RS485 COMMUNICATIONS
- 4 LOGIC INPUTS
- DIN RAIL MOUNTING
- 1200-38400 BAUD

SPECIFICATION

- COMMS: Modbus RTU protocol
- INPUT: Update time 500mS
- 24, 110 or 230vac supply
- 0/4-20mA or 0/2-10vdc, PTC, Pt1000 input
- ACCURACY: 0.5% of full scale
- DIMENSIONS: 70w x 84h x 60mm deep
- RESOLUTION: -99.9 to 999.9

PART CODES	DESCRIPTION	PRICE (£)	
		1 - 9	10 +
TDA04-IA	4 x 0/4-20mA + 4 Logic inputs, 1 relay output, RS485, 24vac	POA	POA
TDA04-IC	4 x 0/4-20mA + 4 Logic inputs, 1 relay output, RS485, 110vac	POA	POA
TDA04-ID	4 x 0/4-20mA + 4 Logic inputs, 1 relay output, RS485, 230vac	POA	POA
TDA04-VA	4 x 0/2-10vdc + 4 Logic inputs, 1 relay output, RS485, 24vac	POA	POA
TDA04-VC	4 x 0/2-10vdc + 4 Logic inputs, 1 relay output, RS485, 110vac	POA	POA
TDA04-VD	4 x 0/2-10vdc + 4 Logic inputs, 1 relay output, RS485, 230vac	POA	POA
TDA08-PA	8 x PT1000 + 4 Logic inputs, 1 relay output, RS485, 24vac	POA	POA
TDA08-PC	8 x PT1000 + 4 Logic inputs, 1 relay output, RS485, 110vac	POA	POA
TDA08-PD	8 x PT1000 + 4 Logic inputs, 1 relay output, RS485, 230vac	POA	POA
TDA08-EA	8 x PTC + 4 Logic inputs, 1 relay output, RS485, 24vac	POA	POA
TDA08-EC	8 x PTC + 4 Logic inputs, 1 relay output, RS485, 110vac	POA	POA
TDA08-ED	8 x PTC + 4 Logic inputs, 1 relay output, RS485, 230vac	POA	POA

IDEAL FOR USE WITH 5.6" TO 10.4" SCREENS AND GRAPHIC DISPLAYS