





- Fully graphical displays
- Operated by high-quality function keys
- Ethernet and USB integrated as standard
- Versatile connection options such as INTERBUS, MPI, PROFIBUS, CAN, DeviceNet
- Open platform allows integration of your own software
- Diagnostic tool integrated as website in HMI
- Remote control and remote maintenance (optional function)


Technical Data	General
Processor	RISC ARM9 CPU, 200 MHz, real-time clock
Operating system	Windows CE 5.0
Memory	16 MB Flash (including 3 MB application memory); 32 MB SDRAM; 512 KB SRAM (battery-backed)
Interfaces	10/100 MBit Ethernet; 2 x USB Host 2.0 Full Speed; Options: CAN, DeviceNet, INTERBUS, MPI, PROFIBUS DP, RS232/RS485
Connection system	RJ45 female connector, USB female connector (type A), Phoenix COMBICON connector strips, D-SUB male and female connector strips
Supply voltage	24 V DC (SELV in accordance with DIN EN 61131) Minimum/maximum voltage: 18 V - 30 V DC
Degrees of protection	Front: IP65, Rear: IP20
Temperature range	Operation: 0 °C to 50 °C; Storage: -25 °C to 70 °C
Relative air humidity for operation and storage	20% to 85% no dew condensation (non-condensing)
Front panel	Aluminium, natural anodized finish
Housing	Zinc-coated sheet steel
Certification	CE, UL, cUL
Applications	In numerous industrial sectors, such as: The automotive and automotive supply industry, plant construction and mechanical engineering, food and luxury food industry, etc.
External keyboard / mouse / barcode reader	* / * / *

Technical Data	BT03AM	
Keys	7 keys / 7 function keys	
Function keys	4 with slide-in identification strips and integrated LED	
Display	7,62 cm (3") FSTN / LED backlight white	
Colors	5 Gray Shades	
Resolution (W x H in pixels)	160 x 80	
Front panel dimensions (W x H x D in mm)	144 x 96 x 5	
Mounting cut-out (W x H in mm)	136 x 82	
Mounting depth (in mm)		
- with bus interface	58	
- without bus interface	46	
Current consumption	0,25 A	
Connected load	6 W	
Weight (in g)	500	

Technical Data	BT05AM	
Keys	24 keys / 6 function keys	
Function keys	6 with slide-in identification strips and integrated LED	
Display	7,62 cm (3") FSTN / LED backlight white	
Colors	5 Gray Shades	
Resolution (W x H in pixels)	160 x 80	
Front panel dimensions (W x H x D in mm)	120 x 168 x 5	
Mounting cut-out (W x H in mm)	112 x 160	
Mounting depth (in mm)		
- with bus interface	55	
- without bus interface	43	
Current consumption	0,25 A	
Connected load	6 W	
Weight (in g)	600	

Technical Data	BT07AM	
Keys	24 keys / 15 function keys	
Function keys	12 with slide-in identification strips and integrated LED, 3 with slide-in identification strips	
Display	9,65 cm (3,8") FSTN / LED backlight white	
Colors	5 Gray Shades	
Resolution (W x H in pixels)	320 x 240	
Front panel dimensions (W x H x D in mm)	155 x 205 x 5	
Mounting cut-out (W x H in mm)	139 x 199	
Mounting depth (in mm)		
- with bus interface	55	
- without bus interface	43	
Current consumption	0,25 A	
Connected load	6 W	
Weight (in g)	800	

Technical Data	BT21AM, AS	
Keys	24 keys / 16 function keys	
Function keys	12 with slide-in identification strips and integrated LED, 4 with slide-in identification strips	
Display	(5,7") FSTN / CSTN / LED backlight white	
Colors	5 Gray Shades / 256 / 65536	
Resolution (W x H in pixels)	320 x 240	
Front panel dimensions (W x H x D in mm)	300 x 160 x 5	
Mounting cut-out (W x H in mm)	292 x 152	
Mounting depth (in mm)		
- with bus interface	43	
- without bus interface	55	
Current consumption	0,25 A / 0,4 A / 0,4 A	
Connected load	6 W / 9,6 W / 9,6 W	
Weight (in g)	1200	

Technical Data	BT70AT	
Keys	22 keys / 18 function keys	
Function keys	18 with slide-in identification strips and integrated LED	
Display	17,78 cm (7")	
Colors	256	
Resolution (W x H in pixels)	800 x 480	
Front panel dimensions (W x H x D in mm)	380 x 210 x 5	
Mounting cut-out (W x H in mm)	372 x 202	
Mounting depth (in mm)		
- with bus interface	57	
- without bus interface	45	
Current consumption	0,5 A	
Connected load	12 W	
Weight (in g)	1800	

Comprehensive Suite of Functions

Visualization, data management and remote-control functions can be easily realized along with web, client/server and integrated network functions.

Convincing Usability

A diagnostic tool simplifies the retrieval of information through the use of an integrated website in the HMI. Full Unicode implementation represents a cost-effective solution for international applications and also allows the interface to be customized in a flexible manner to meet customer specifications. Another highlight is the message system featuring real-time and history message channels, recipe management or programmable print logs.

Straightforward Programming

With the TSwin .net programming software, all programmed applications can be easily implemented.

Flexible Integration

A high degree of system capability allows all operator systems to be integrated in a flexible manner in demanding automation solutions.

Customized Applications

To suit the unique hard and software needs of your specific machine or installation, we can also offer to provide tailor-fit solutions.