Section 1 Introduction

General

The Panel 800 operator panel is developed to satisfy the demands of human-machine communication. Built-in functions such as displaying and controlling text, dynamic indication, time channels, alarm and recipe handling are included.

The operator panel work, for the most part, in an object-oriented way, making it easy to understand and use. The configuration operation of the panel is made in a personal computer, using the configuration tool Panel Builder 800. The project is then transferred and stored in the operator panel.

The operator panel can be connected to many types of automation equipment, such as PLCs, servos or drives. In this manual the expression “the controller“ is used as a general term for the connected equipment.

This manual explains how to install the operator panel. Please refer to the manual Panel Builder 800, Programming and Installation (3BSE043445Rxxx) for further information.

The release history of the Panel 800 is presented below.

Version	Description	User documentation
4.1	Initial release of the Panel 800 and firmware version 1.0.	3BSE043447R101 (MA00793)
5.0	Release of firmware version 2.0 with support for MMS Alarm and Event and PROFIBUS-DP slave interface (CB801).	3BSE043447R201
5.0/1	Release of firmware version 3.0.	3BSE043447R301 (MA007937A)

Section 4 Technical Data

Parameter	PP845	PP845A
Front panel, W x H x D	302 x 228 x 6 mm	
Mounting depth	58 mm (158 mm including clearance)	
Front panel seal	IP 66	
Rear panel seal	IP 20	
Keyboard material/ Front panel	Touch screen: Polyester on glass *, 1 million finger touch operations. Overlay: Autotex F157/F207 *.	
Reverse side material	Powder-coated aluminum	
Weight	2.1 kg	
Serial port RS422/RS485	25-pin D-sub contact, chassis-mounted female with standard locking screws 4-40 UNC.	
Serial port RS232C	9-pin D-sub contact, male with standard locking screws 4-40 UNC.	
Ethernet	Shielded RJ 45	
USB	Host type A (USB 1.1), max output current 500mA Device type B (USB 1.1)	
CF-slot	Compact flash, type I and II	
Flash memory for application	12 MB (incl. fonts)	
Real time clock	±20 PPM + error because of ambient temperature and supply voltage. Total maximum error: 1 min/month at 25 °C Temperature coefficient: -0.034±0.006 ppm/°C^2	

Parameter	PP845	PP845A
Real time clock battery	CR2450 (UL and cUL: Sanyo or Panasonic) Minimum lifetime: 3 years	Rechargeable battery.
Power consumption at rated voltage	Normal: 0.5 A Maximum: 1.0 A	
Display	TFT-LCD. 800 x 600 pixels, 64K color. CCFL backlight lifetime at the ambient temperature of +25 °C: >50,000 h.	
Active area of display, W x H	211.2 x 158.4 mm	
Fuse	Internal DC fuse, 3.15 AT, 5 x 20 mm	
Power supply	+24V DC (20 - 30V DC). 3-pin jack connection block. CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for class II power supplies.	
Ambient temperature	Vertical installation: 0 ° to +50 °C Horizontal installation: 0 ° to +40 °C	
Storage temperature	-20 °C to +70 °C	
Relative humidity	5 - 85 % non-condensed	
CE approvals	Noise tested according to EN61000-6-4 emission and EN61000-6-2 immunity.	
UL, cUL approvals (when procuct or packing is marked)	UL 1604 Class I, Div 2 / UL 508 / UL 50 4x indoor use only	UL 508 / UL 50 4x indoor use only
DNV	Yes	
NEMA	4x indoor use only	

* See Section 5, Chemical Resistance for more information.