

Short overview of annunciator and control devices in the system <i>HospEC</i> [®]	BMTI 1	BMTI 2	BMTI 5	Annunciator and control panels series FolioTec	Annunciator and control panel series HospEC Tohscreen
Compatibility in the <i>HospEC</i> [®] system	✓	✓	✓	✓	✓
Communication via CAN bus	✓	✓	✓	✓	✓
Supply voltage	DC 24 V	DC 24 V	DC 24 V	AC 230 V 50 Hz	AC 230 V 50 Hz
Triggering of the insulation test 230 V	✓	✓	✓	✓	✓
Messages/signals of the CAN bus are displayed	✓	✓	✓	✓	✓
Messages/signals of the CAN bus are decoupled digitally	-	-	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾
Integrated signal relay	-	-	✓	✓	-
Maximum number of different messages	5	9	1000	1000	1000
Integrated message history - number of messages	-	-	500	500	unlimited
Individual messages	-	-	✓	✓	✓
Assignment of messaging priorities (operation/warning/fault)	-	-	✓	✓	✓
Messages with full-graphic display/LED	-/LED	-/LED	✓ / LED	✓ / LED	Touchscreen
Function digital in-/outputs to/from CAN bus	-	-	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾
Digital input channels	-	-	16 ^{1,2)}	16 ^{1,2)}	16 ^{1,2)}
Digital output channels	-	-	16 ^{1,2)}	16 ^{1,2)}	16 ^{1,2)}
CAN routing function	-	-	✓	✓ ¹⁾	✓
CAN modbus gateway	-	-	✓ ¹⁾	✓ ¹⁾	✓
Parameterization of devices of the series RCM	-	-	✓	✓	-
Installation of OR table control, clocks, verbal communication, digital displays	-	-	-	✓	✓
Freely parameterizable functions for LEDs; push-buttons and multi-function illuminated pushbuttons	-	-	-	✓	Macro function
Closed permanently durable foil surface - resistant to cleaning agents	✓	✓	✓	✓	foil+glass
Installation	in installation boxes UP	in installation boxes UP	wall-cavity/flush-mounted/ wall-mounted	wall-cavity/flush-mounted/ wall-mounted	cavity wall/flush-mounted/ surface-mounted
Dimensions (HxWxD)	80 x 80 x 37	80 x 80 x 37	171 x 86 x 59	max. 800 x 800 x 85	max. 800 x 800 x 110
Order number: (flush-mounted)	ESA.0080234	ESA.0080235	ESA.0080213³⁾	on request	on request

✓ yes/included - no/not included ¹⁾ with additional PCB ²⁾ channels freely parameterisable as in- or output ³⁾ basic version (without additional PCB)

Requirements

Information concerning the total system – from medical to building technical view – has to be provided to the user centrally and decentrally and assigned to individual areas. Operations have to be executed on these panels as well. As the staff in hospitals has to deal with lots of information the whole time the display of the annunciator and control systems has to follow the principle of “as less as possible”. If operations are required, they have to be executable quickly and intuitively and recognizable at first sight.

Our solution

With our annunciator and control devices, we provide our customers with a system realising all required control and operating functions and furthermore, corresponding to the typical requirements of a hospital.

Your benefits

- especially designed for the use in medical locations
- designed for quick identification of all necessary messages
- simple, clear and intuitive operating possibility
- operating and displaying elements transparent, backlighted by different multi-coloured LEDs
- closed, multi-layered and permanently stable foil surface, resistant against cleaning and disinfecting agents, UV-resistant
- high IP code of the operator surface (IP54)
- communication via standard fieldbus (CAN) with all devices of the system *HospEC*[®]
- problem-free integration into the building management system
- integration possibility of control and regulation functions, even for external systems
- general processing of system data, no determination by predefined operating and warning messages
- simple handling by few operating elements and simple menu structure

Annunciator and control devices



Annunciator and control devices in the system *HospEC*[®]

Short overview



BMTI 1 and BMTI 2 – space-saving solutions for simple applications

The devices need no displays and only as much space as a light switch. Only a limited number of changeover and monitoring controls can be evaluated by the devices. Messages are realised via LEDs and acoustically. BMTI 1: only evaluation of insulation, load and temperature monitoring, BMTI 2 additionally with evaluation of changeover devices.

BMTI 5 – the small panel

With its functions, the device BMTI 5 fulfils already requirements which are demanded by large panels. Up to 1000 messages can be displayed. The non-volatile event history saves a maximum of 500 messages. The BMTI 5 can have up to 16 digital in- or outputs when an additional PCB is used. Furthermore, the full Modbus® functionality is provided (BMTI 5 as slave). Different message levels are signalled by the changing background lighting of the display (green, yellow, red). The device has 2 CAN interfaces, CAN routing thus is possible.



Operating and annunciator terminals



Annunciator and control panels – series FolioTec – the large panels

Annunciator and control panels are for displaying of operating and error messages of IT systems, of changeover controls, for displaying of measurements and messages of all devices in the system *HospEC®*, for messages of external systems, for operating table control, integration of the verbal communication, lighting control, blend control, representation and control of further processes of the whole system. The panels are produced customer-specific. Their dimensions are widely variable.



Annunciator and control panels - series HospEC Touchscreen

Our solution is the new product HospEC Touchscreen in size 16:9. The communication with the user is realised via a 15.6 inch touchscreen in the proven panel design. A simple and clear menu structure is user-friendly and self-explanatory. The brilliant design was chosen for clarity and simple handling.

Its macro function is unique in its sector. Individual functions can be summarised in one touch tile to optimise the surgical procedure, for example "Operating mode" with: room lighting "on", blends "dimmed" and air-conditioning "operating mode".

