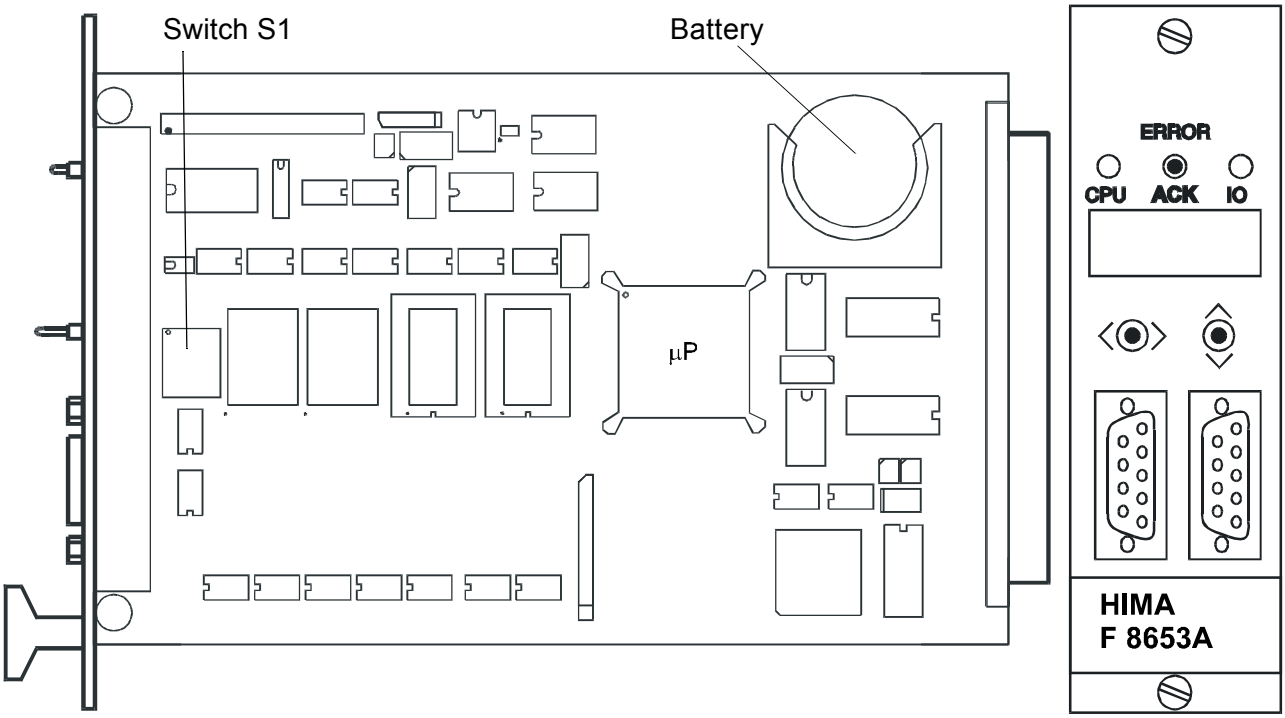
F 8653A

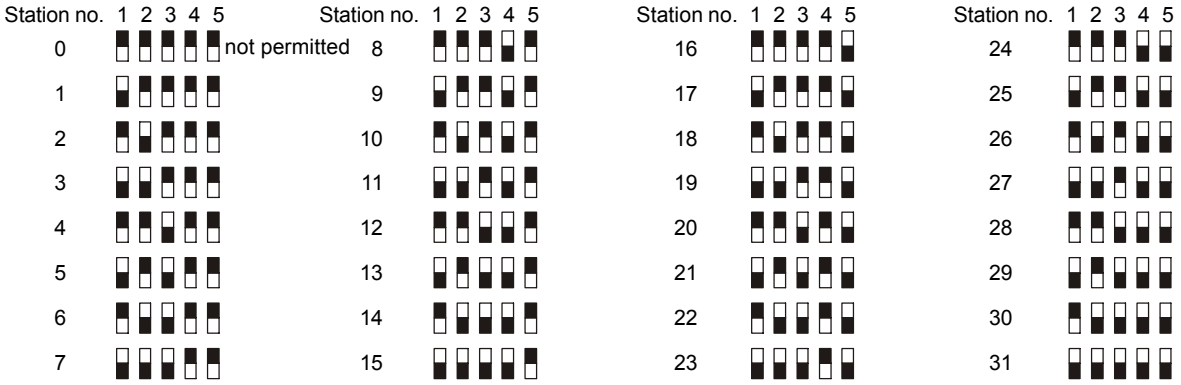
F 8653A: Central module
use in the PES H41q-M, H, HR



Microprocessor	Type INTEL 386EX, 32 bits clock frequency 25 MHz
Memory per microprocessor	
operating system	Flash-EPROM 1 MByte
user program	Flash-EPROM 512 kByte
data store	sRAM 256 kByte
Interfaces	2 serial interfaces RS 485
Diagnostic display	4-digit matrix display with requestable information
Error switch off	safety-related watchdog with output 24 V DC, up to 500 mA, short-circuit-proof
Construction	2 PCBs in European standard 1 PCB for the circuits of the diagnostic display
Space requirements	8 TE
Operating data	5 V DC: 2000 mA

Note: Before withdrawing a central module its fixing screws must be loosened completely and freely movable. The module must be withdrawn and inserted uninterruptedly to prevent triggering any faulty signals in the system!

Setting of the bus station no. via switches S1-1/2/3/4/5:



Setting of transm. rate with switch S1-8:

Pin allocation of the interface channels RS 485

Pin	RS 485	Signal	Meaning
1	-	-	not used
2	-	RP	5 V, decoupled by diodes
3	A/A	RxD/TxD-A	Receive/Transmit Data A
4	-	CNTR-A	Control signal A
5	C/C	DGND	Data Ground
6	-	VP	5 V, positive pole of power supply
7	-	-	not used
8	B/B	RxD/TxD-B	Receive/Transmit Data B
9	-	CNTR-B	Control signal B

Diagnostic display of the central module:

- 4 digit alphanumerical display,
- 2 LEDs for the common display of errors (CPU for the central modules, IO for the testable I/O-modules,
- 2 switch-over pushbuttons marked with <> and ⌃⌄ to request detailed information,
- Pushbutton ACK resets the error indication. In failure stop ACK will react like the switch-on of the system.

For further information to the diagnostic display refer to the documentation "Functions of the Operational System BS 41q/51q".

Notes for start-up and maintenance

- Lifetime of the buffer battery (*without* voltage feeding):
  1000 days at T_A = 25 °C
  200 days at T_A = 60 °C
- It is recommended to change the buffer battery (CPU in operation) at the latest after 6 years, or with display BATI within three weeks (Lithium battery, e. g. type CR 2477N, HIMA part no. 44 0000018)
- Check the bus station no. and transmission rate at switch S1 for correct settings
- **Important:** When upgrading an F 8653 to an F 8653A module the fan concept is also to be changed!