



10008/2/U

FSC-SMM communication module

Description

The 10008/2/U communication module is used for communication with the Honeywell TotalPlant Solution (TPS) System, via the Universal Control Network (UCN).

The module is placed in the Central Part of the FSC system, and consists of:

- a Motorola 68360 Quad Integrated Communication Controller (running on 25 MHz),
- EPROM (4 Mbit) for the FSC firmware program (see Figure 2),
- local RAM (16 Mbit with parity) for the application-specific data,
- shared RAM (2 Mbit) for all data exchange between this module and the FSC control processor,
- EEPROM (1 kbit) for storing critical configuration data,
- a Motorola 68824 token bus controller (running on 10 MHz),
- a Motorola 68194 carrierband modem, and
- an isolated redundant communication link.

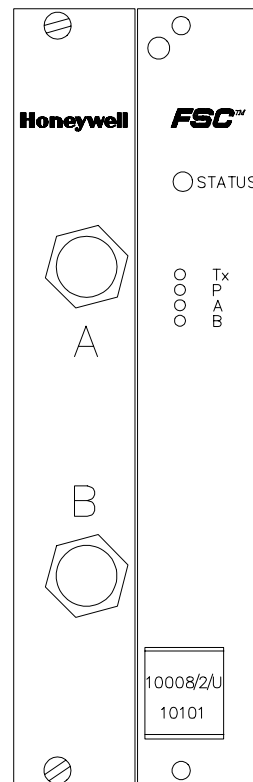


Figure 1 Front view



After power-up, the application program is automatically downloaded from the FSC control processor into local RAM.

The redundant link to the TPS system is made on the two connections (A and B) at the module front (see Figure 1). The top connector is linked to a tab of cable A. The bottom connector is linked to a tab of cable B.

LED indicators

The module has a (red/green) 'STATUS' LED and four additional (red) LEDs.

The 'STATUS' LED is:

- off when the 5 Vdc power on the FSC Central Part system bus is down,
- red when the module is offnet or alive,
- green when the UCN program is running (idle or OK),
- red/green flashing when the UCN program has failed.

If the 'STATUS' LED is green, the four small LEDs provide additional information about the UCN communication:

- The 'Tx' LED is on when data is being transmitted.
- The 'P' LED is on when the node is primary (and off when the node is secondary).
- The 'A' LED is on when the A channel is the active channel.
- The 'B' LED is on when the B channel is the active channel.

Note:

If the node is not redundant, the 'P' LED will always be off.



Jumpers

The FSC-SMM communication module can operate as COM1, COM2, COM3 or COM4. The COM number is set using jumpers J1 and J2 on the board (see Figure 2).

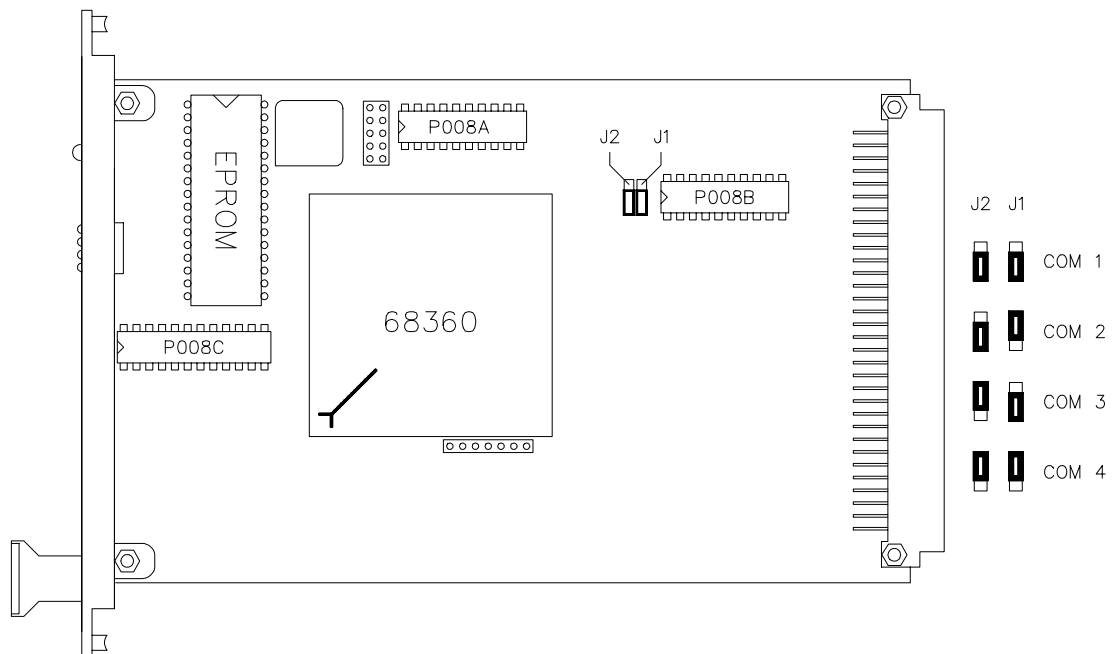


Figure 2 Jumper positions on 10008/2/U

The jumper on the Central Part system bus (5-SBUS, 7-SBUS, 12-SBUS or 17-SBUS) must be opened (see the 'Central Part system buses' data sheet).

Note:

The two screws on the left module front section must be used to meet the CE requirements.



Technical data

The 10008/2/U module has the following specifications:

General

Type number: 10008/2/U 10101
Approvals: CE, TÜV, UL
FSC software version: ≥ 400
Space requirements: 8 TE, 3 HE (= 8 HP, 3U)

Power

Power requirements: 5 Vdc 2 A
Ripple content: $< 50 \text{ mV p-p}$

Note:

Do not remove or replace this module while the power to its Central Part is on.

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