Honeywell FC-DCOM-232/485

01 Serial topology record

Serial topology record procedure

Use this stage for FC-DCOM-232/485 at its assigned installation position. Record processor cables, serial mode, duplex setting and all three DIP-switch positions. Identify whether the link is a supported Safety Manager relationship.

Acceptance of serial topology record

The intended network does not rely on the excluded high-rate FSC-to-Safety-Manager RS485 use. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Stage record	Serial topology record observations and acceptance result
Processor supply	5 V DC +/-5%
Maximum current	500 mA

FC-DCOM-232/485

02 Processor and earth connection

Processor and earth connection procedure

Restore the processor-supplied internal connection and cabinet-earth terminal. Inspect connector housings and cable shields.

Acceptance of processor and earth connection

Communication power and grounding follow the specified FTA arrangement without an added separate supply. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Stage record	Processor and earth connection observations and acceptance result
RS232 baudrate	0-250 kbaud
RS422/485 baudrate	0-2 Mbaud

03 Pin allocation and termination

Pin allocation and termination procedure

Compare Master-switch positions with straight-through or crossover cabling. Fit the required end-of-line termination at the unused network-end connector.

Acceptance of pin allocation and termination

Both endpoints have compatible pin allocation and the line ends are correctly terminated. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Stage record	Pin allocation and termination observations and acceptance result
RS232 topology	Point-to-point
RS422 topology	Point-to-point

04 Bias and baudrate test

Bias and baudrate test procedure

Apply the required line-conditioning settings and verify the rate, duplex and cable-length combination. For RS232, confirm switch 3 is ON.

Acceptance of bias and baudrate test

Idle and active communication remain stable under the intended network loading. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Stage record	Bias and baudrate test observations and acceptance result
RS485 full-duplex devices	32 maximum
RS485 half-duplex devices	16 maximum

FC-DCOM-232/485

05 Complete-link acceptance

Complete-link acceptance procedure

Test normal data exchange, relevant communication-loss behavior and the configured processor arrangement. Remove temporary test connections before release.

Acceptance of complete-link acceptance

The retained test record covers the installed network, not only a short local serial connection. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Technical basis: Honeywell Safety Manager Hardware Reference, EP-SM.MAN.6284 Issue 2.1, DCOM-232/485 datasheet version 1.2.

Related product navigation

- Honeywell FC-TSDI-1624
- Honeywell FC-IOTA-R24 51306505-175
- Honeywell FC-TSAI-1620m

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.