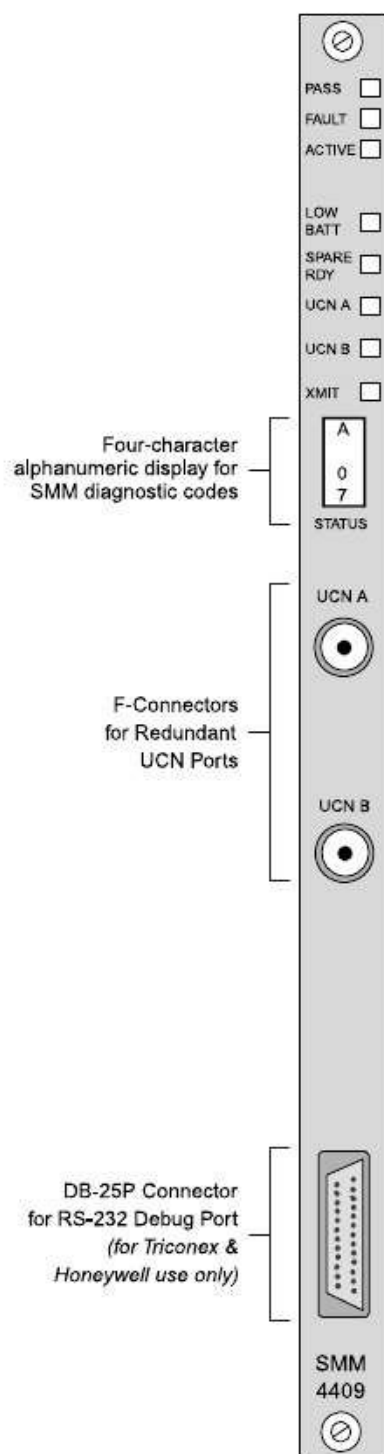


Product Specifications



Safety Manager Module

The Model 4409 Safety Manager Module (SMM) acts as an interface between a Tricon controller and a Honeywell Universal Control Network (UCN), one of three principal networks of the TDC-3000 Distributed Control System. Appearing to the Honeywell system as a safety node on the UCN, the SMM communicates process information at full network data rates for use anywhere on the TDC-3000. The SMM transmits Tricon aliased data (including system variables) and diagnostic information to operator workstations in display formats that are familiar to Honeywell operators.

The SMM makes the following functions available to the TDC-3000:

- Handles critical I/O points and passes results to the DCS
- Processes Tricon alarms and propagates them to user-defined DCS destinations (consoles, printers, etc.)
- Reads/writes aliased data to satisfy DCS requests

- Reads Tricon diagnostics for display by the DCS
- Write protection to lock out changes to the Tricon controller from all TDC-3000 sources
- *Time synchronization* from the DCS master clock
- *Peer-to-Peer communication* for plants with many Tricon controllers, each containing an SMM—the DCS can use shared data to alert downstream Tricons of significant process changes
- *Sequence of Events*—transmits Tricon event data to Universal Stations for display or History Modules for recording, to help determine the cause of plant trips and increase process up-time
- Hot-spare capability for uninterrupted communication with Honeywell networks

SMM Specifications

Model Number	4409
UCN ports	2 isolated (AC coupled)
UCN data rate	5 MBytes per second
Status indicators	PASS (Module Status) FAULT (Module Status) ACTIVE (Module Status) LOW BATT (Low Battery) SPARE RDY (Hot Spare Ready) UCN A (UCN Port A Active) UCN B (UCN Port B Active) XMIT (SMM Transmitting) STATUS (Module Node and Diagnostic Info.)
Power Module load	< 20 watts
Isolation	500 VDC