

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

TRICONEX

AI 3351

TMR ANALOG INPUT MODULE

Used with the applicable Triconex safety system configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Trident Planning Installation Guide

Analog Input Module

The following analog input components are available.

Model	Description	Current	Type
3351	Analog Input Module	4–20 mA	Commoned
2351	Analog Input Baseplate		Direct Termination
2352	Analog Input External Termination Panel Baseplate		External Signal Conditioners

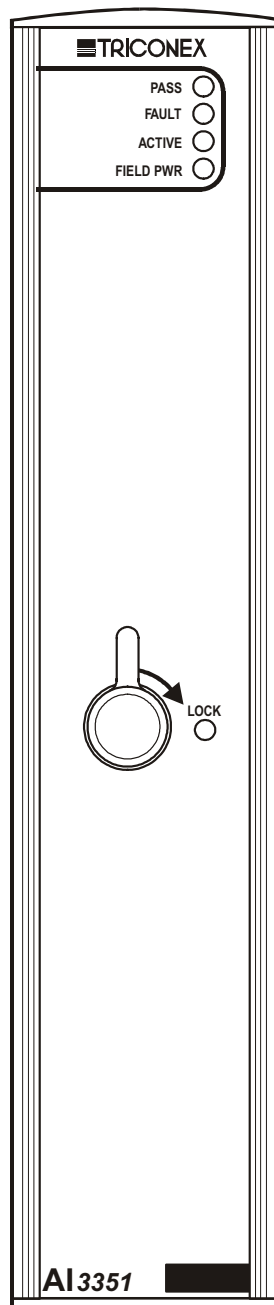
The Analog Input (AI) Module has three independent input channels. Each input channel receives variable voltage signals from each point, converts them to digital values, and transmits the values to the three MPs on demand. One value is then selected using a mid-value selection algorithm to ensure correct data for every scan. Sensing of each input point is performed in a manner that prevents a single failure on one channel from affecting another channel.

The AI Module sustains complete, ongoing diagnostics for each channel. If the diagnostics detect a failure on any channel, the module's Fault indicator is activated, which in turn activates the system alarm. The Fault indicator points to a channel fault, *not* a complete module failure. The AI Module is guaranteed to operate properly in the presence of a single fault and may continue to operate properly with multiple faults.

The AI Module supports hot sparing for online replacement of a faulty module or continuous back-up to an active module. The AI Module is mechanically keyed to prevent improper installation in a configured baseplate.

Model 3351 Analog Input Module

AI Module
Front Panel



Analog Input Module Indicators

This section describes the AI Module indicators and recommends actions for fault conditions.

