



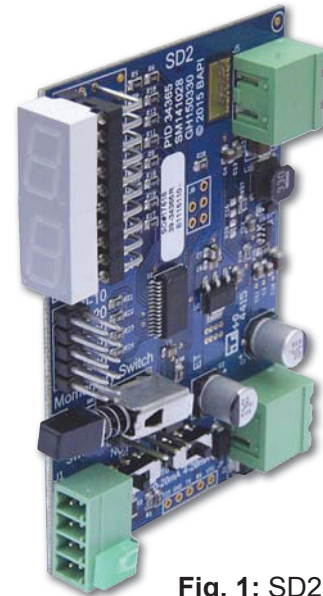
## Overview

The SD2 is an ETA module that is used to indicate a program error code which requires a manual reset. The module includes a manual reset switch that can be pressed to route a reset signal to a controller.

The polarity of the reset switch can be set to Normally Open (NO) or Normally Closed (NC) operation via the jumper on J2. When the reset switch is pressed, Terminals #3 and #4 of J1 are either connected or disconnected. Two 7-segment displays are available at the edge of the module, denoting where the input signal is within the range.

The SD module receives an input signal from a controller, and then displays a number from 0 to 10 up to 0 to 50, depending on the jumper position of J3. It can accept a current input of either 0 to 20mA or 4 to 20mA or a voltage input of 0 to 10V or 2 to 10V.

The unit is typically mounted in a BP2, BP4, BP8 or BP4V Backplane with power provided by the Backplane; however, the unit can be powered directly with an alternate DC supply. The green LED indicates that power is available to the module.



**Fig. 1:** SD2 Status Display Module

## Ordering Information

### BA/SD2

Status Display w/ Dual 7-Segment Display

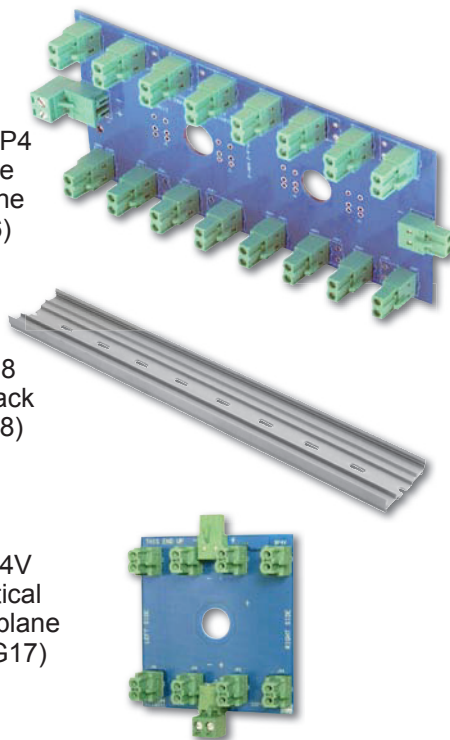
See end of Section G for list pricing.

## Associated Products

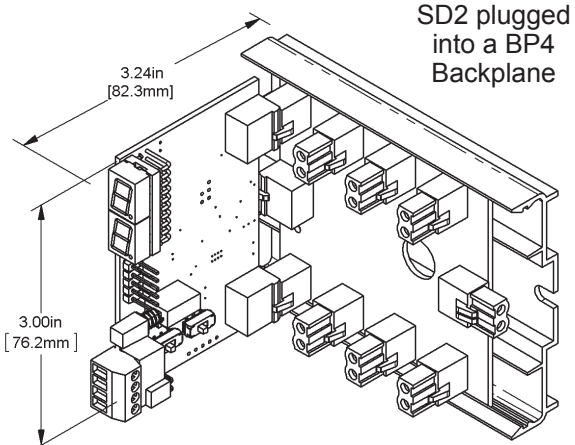
BP8 or BP4  
Interface  
Backplane  
(p. G16)

TRK18  
Snaptrack  
(p. G18)

BP4V  
Vertical  
Backplane  
(p. G17)



## Specifications



- **Power Supply:** MCP2456 switching regulator. Supplies 12V which is then dropped down by linear regulator MCP1703 to 5V for the on-board circuitry, and acts as the reference for the ADC.
- **Microprocessor:** PIC16F1938 utilizing on-board ADC, LCD driver, UART, ISP and GPIO.
- **Dual 7-segment display:** LTS-1802

**Power Voltage:** 16 to 35VDC

**Power Current:** 50mA Max