



# 4046 Analog to SDI-12 Converter

Convert multiple analog sensors into SDI-12 output.



- Convert 2 analog sensors and one pulse counter
- Programmable slopes and offsets
- Monitor battery voltage and temperature
- DIN rail mountable

## Description

The 4046 Analog to SDI-12 Converter provides an interface to convert inputs from two analog sensors and one pulse counter to an SDI (serial data interface). The Analog to SDI-12 Converter also provides internal measurements of battery voltage and ambient temperature. The Analog to SDI-12 Converter responds to all basic SDI commands and enters a low power sleep state when it is not being polled.

The 4046 Analog to SDI-12 Converter has user programmable slope and offset values for the analog and pulse counter inputs. The analog to SDI-12 converter has a user programmable sensor warm-up time. Additionally the analog to SDI-12 converter temperature scale can be changed from °F to °C or vice versa.

## Specifications

*Inputs:* Gnd, +12VDC, (2) Analog 0-5VDC, Tipping Bucket (contact closure to ground)

*Communication:* SDI-12 (version 1.1 compliant)

*Wire Size:* #24 - #14 AWG

*Connections:* Screw Terminal

*Mounting:* DIN rail (35mm)

*Sensor Power:* 12VDC or 5.00VDC (jumper selectable)

*Power Supply:* 12 VDC, <200uA during sleep, <1A for sensor power.

*Operating Temperature:* -22 to 140°F (-30 to 60°C)

*Size:* 3.5"x0.75"x2.1" (89x19x53mm) (LxWxH)

*Weight:* 1.9 oz (54g)

## Options and Accessories

**4046** Analog to SDI-12 converter

Contact  
Global Water  
for all your  
instrumentation  
needs:

Water Level

Water Flow

Water Samplers

Water Quality

Weather

Remote Monitoring

Control

**Regional Distributor**



**Global Water**

*The Leader in Water Instrumentation*

803, Riqqa Palace Building  
Al-Maktum Ave. opposite Deira Etisalat  
P.O.Box 181802 Dubai, UAE  
Tel: +9714 - 2270081  
Fax: +9714 - 2239962  
E-mail: [rcsco@eim.ae](mailto:rcsco@eim.ae)  
[www.rcs-co.com](http://www.rcs-co.com)

**RS**  
Rabbit Control Systems  
Automation & Control Engineering