

# ALARM OUTPUT MODULE

CATALOG #3672



The Alarm Output Module is a dry contact control relay that operates as either a normally-open or normally-closed single pole switch. The output is rated at 1 amp AC or DC. It should be used with low voltage control signals due to its exposed terminal contacts.

The relay is triggered when a sensor reading “exceeds” the user-defined set point. The user can select whether the relay is activated when the set point is truly exceeded or when sensor readings drop below the set point. This is accomplished by selecting either “Goes Above” or “Goes Below” in the SpecWare

Launch Options screen (See Specware User’s Guide). The relay can trigger on any of the pre-connected sensors (wind speed, rainfall, air temperature or relative humidity) as well as any sensor on Ports A - D (i.e. leaf wetness, soil moisture, etc.). The relay is reset as soon as the set point is no longer “exceeded”. Set points are entered as a whole number or decimal depending on how the selected sensor reports its reading. If the station is functioning in metric mode, all set points should be in metric as well.

Specware uses lookup tables to convert the sensor’s electrical response into physical data points so only a finite number of values are actually available. If the Alarm Set Point does not identically match one of these discrete values, the software will replace it with the closest corresponding value in the lookup table. Therefore, when the Launch Options screen is displayed, the Alarm Set Point may differ slightly from what was originally entered.

Rainfall is a special case. The rainfall set point is the amount of rain that falls during the logging interval. The relay is not activated/deactivated until the end of the interval. Example: If the set point is 0.15”, the relay will activate at the end of the first interval that records 0.15” of rain. It will then deactivate when succeeding interval has recorded less than 0.15”.

If the relay is in the activated state when the station is contacted for a download or launch, the relay will remain active until:

- 1.) Station is successfully relaunched with “No Alarm” selected in the Launch Options screen.
- 2.) Station is successfully relaunched and conditions are such that the set point is no longer “exceeded. At that point, the relay automatically resets itself.

A splitter is included with the Alarm Module for applications where the weather station’s Auxiliary Port is needed for some other function (i.e. for connecting a wireless transceiver).

Note: Weather stations must have firmware version 7.0 or greater to function with the Alarm Module. However, only condition 2 will work on versions 7.0 and 8.0. The firmware version is displayed in the Launch Options screen.

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