

Inquire – Knowledge Base Article

Product Group: IMx Product: IMx-M Version: N/A

Abstract

This article discusses IMx alarm relay functionality, and how to configure an alarm relay.

Overview

As an IMx point is configured, the corresponding relay can be selected from the drop-down list (Figure 1).

POINT Properties				×
Speed Alarm Messa	iges Notes	Frequencies Imag	jes Band	Envelope
General Setup	IMx Setup So	chedule Filter Keys	Setup Log	Overall
Alarm group:			_	View
Alert relay:	Relay1 💌	Danger rela	ay: Relay2	•
Speed collection				
Speed reference:			Se	lect
Speed ratio:	1			



Figure 1. IMx-S configuration

The criteria for the relays to go in and out of the condition will be dictated by two factors:

- The overall alert/danger settings (Figure 2).
- The hysteresis settings (**Customize** \rightarrow **Global** settings Figure 3).

Overall alarms:	<private alarm=""></private>	•
Properties		
C None		
Level		
C In window		
C Out of window		
Settings	0.35	Danger high Alert high
I Alert high	0.2	Clear
		Share As

Figure 2. Alert/danger settings



Setting 🔺	Value
Clear cached data in IMx on connecting	Off
Days (0 for forever) to keep setup log rec	0
Default ADMIN password on the Microlog I	***
Display icon indicator when POINT is overdue	Off
Enter reason for setup change on logging	Always
Hysteresis verification into alarm	3
Hysteresis verification out of alarm	1
Mx post-processing interval in minutes	15
log POINT setup changes	Off
Overdue processing delay between POINT	1
Percent beyond schedule to report online	150
Set alarm to not acknowledged	On any alarm level change
Show reminder of changes reporting TMy ti	00

Figure 3. Hysteresis settings

The settings are sent to the IMx unit through @ptitude Analyst. The actual hardware performs checks based on hysteresis information.

The default hysteresis values shown above in Figure 3 are set to '3' and '1'. This means the relay will be triggered (go **into** alarm) once three (3) consecutive measurements conform to an alert condition. The relay will then come **out of** that alert condition if the following measurement for that point is recorded under the alert level.

The hysteresis values may be changed as desired. The settings are global for all elements in the program (all POINTs, for both alert and danger conditions). The settings cannot be segregated on a 'per-relay' basis – meaning all relays will conform to this setting.

Note: Acknowledging an alarm does not reset relay conditions. Measurement values, as evaluated by the IMx hardware, determine the relay state.

For further assistance, please contact the Technical Support Group by phone at 1-800-523-7514 option 8, or by email at <u>tsg-americas@skf.com</u>.