Create Alarm Groups, Set up Relays and Active Ranges for SKF Multilog On-line System IMx in SKF @ptitude Analyst

Introduction

To enable data collection in special conditions, it is possible to set up alarm groups to allow the user to group POINTs together and collect data when any of the points go into alarm. It is also possible to set up active ranges with speed, process or digital conditions to collect data in a defined range or condition. This application note describes the way to set up alarm groups and active ranges, as well as how to set up external relays.

Procedure

- 1 From SKF @ptitude Analyst, go to Customize / Alarm Attributes / Alarm Settings (→ fig. 1).
- Select the Alarm Group tab (\rightarrow fig. 2).
- Click the **Add** button.
- Select the SKF Multilog IMx device and name the group.

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Alarm Settings						
Overall Band Digital Output	Speed Alarm Envelope Messages	MCD Inspection Alarm Group				
IMx devices:	IMx-Training	×				
Alarm groups:	Alarm gruop 1	~				
Name:	Alarm gruop 1					
Included POINTs:						
		Add Remove				
		Close Help				

Fig. 2. Alarm Settings' Alarm Group tab.

2 POINTs are added to an alarm group from the Point Properties / IMx Setup tab (→ fig. 3). For existing alarm groups, you may view the POINTs that have been added to the alarm group in the Included POINTs area (→ fig. 4). This is a read-only field. To add or remove POINTs from the alarm group, you must edit the POINT's properties on the POINT Properties / IMx Setup tab.

To remove an alarm group:

- Select the alarm group you wish to remove from the **Alarm** groups drop down list.
- If POINTs are included in this alarm group, you must first remove them by editing the POINT's properties on the POINT Properties / IMx Setup tab.
- Click the **Remove** button.

POINT Properties							
Speed Alarm Messa	ges Notes Frequencies Images Band Envelope						
General Setup IM:	Setup Orbit/SCL Schedule Filter Keys Setup Log Overall						
Alarm group:	Alarm gruop 1 View						
Alert relay:	Relay1 💌 Danger relay: Relay2 💌						

Fig. 3. Point Properties' IMx Setup tab.

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Fig. 4. Alarm Settings' Alarm Group tab.

- 3 In the IMx Setup tab, select the Alarm group from the view list (→ step 2).
- Select the Alert relay and Danger relay if needed.
- 4 If you need an active range for speed, process or digital, go to the **Threshold** tab (→ fig. 5) and click **Select** in each case and select the point you want to use to enable collection (→ fig. 6).
- Select the Enable active range option.
- Set the ranges (Min, Max and Delta). For a digital collection, set the Active state.

POINT Properties	
General Setup IMx Setup Schedule Filter Keys Setup Log Overall Speed Alarm Messages Notes Frequencies Images Baseline Phase Band Envelope Threshold	
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Process gating Process reference: \IMx-M @A Alpha test \Test \Process Select For Enable active range Min: 180 Max: 250 Delta: 3 Units: Amps	Clear Clos Select speed reference POINT: Herarchies Herarchy Herarchy Products
Self gating Image Image Min: 0 Max: 100000000 Units: g	IMx m Speed Speed 1
Digital gating Digital reference: \IMx-M @A Alpha test \Test \Digital Select	
OK Cancel Help	OK Cancel Help

Fig. 5. Point Properties' Threshold tab.

Fig. 6. Speed Point Selection window.

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