

# Logic Points Set up in SKF @ptitude Analyst with External Switches Connected to SKF Multilog On-line System IMx-S

## Introduction

Some industries require having external switches in order to enable or disable data collection manually. This document describes how to connect and set up these external controls using SKF Multilog IMx-S power. It is important to remember that for digital channels 1 to 4, it is possible to enable data collection with 24 V dip switches (internally powered), but for digital channels 5 to 8 it is not possible. Therefore, a special connection is necessary in order to use SKF Multilog IMx-S power in these last channels.

## Procedure

- 1 Set up the dip switches for channels 1 to 4 with the following:

Terminal		DIP Settings position: <b>1234</b>
+	A	1010
-	B	
N.C.	0	

Fig. 1. Set up dip switches.

- 2 If you will use digital channels 1 to 4, connect a switch between terminals A and B.

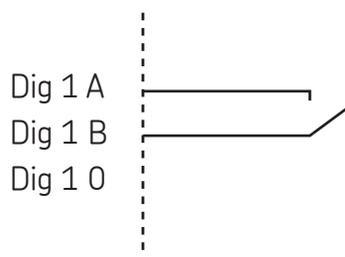


Fig. 2. Connect a switch between terminals A and B.

3 If you will use digital channels 1 to 8, according to **fig. 3**, connect in pairs 1-5, 2-6, 3-7 and 4-8 a 1 kΩ resistor in order to power channels 5 to 8.

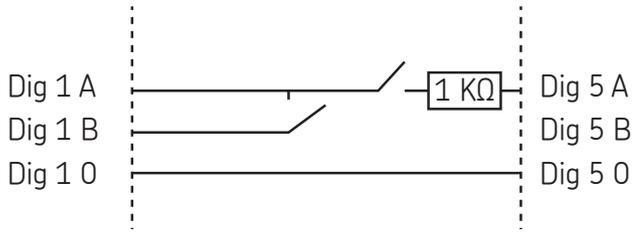


Fig. 3. Connect in pairs in order to power channels 5 to 8.

4 From SKF @ptitude Analyst, select **Customize / Online Settings**. From the **Devices** tab (→ **fig. 4**), select the SKF Multilog IMx unit and click **Config** in order to enable a digital channel (→ **fig. 5**). Do this for each channel you will use as a binary point.

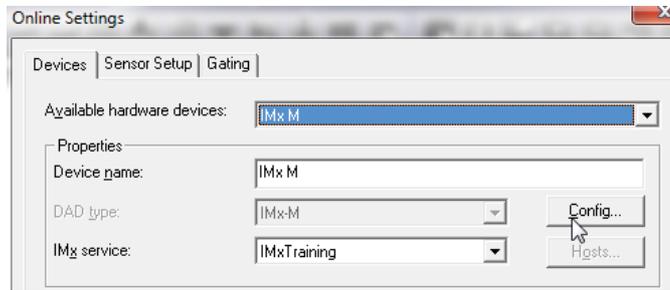


Fig. 4. Online Settings' Device tab.

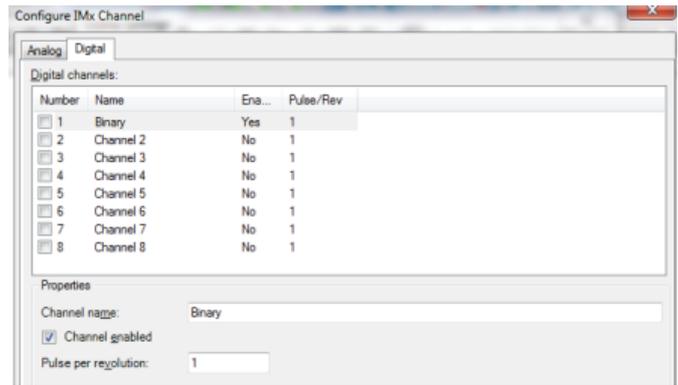


Fig. 5. Configure IMx Channel's Digital tab.

5 Insert a logic point in SKF @ptitude Analyst by right-clicking the hierarchy and selecting **Insert Item** (→ **fig. 6**). From the **DAD/POINT Type Selection** window (→ **fig. 7**), choose "Logic" as the **Sensor type**.

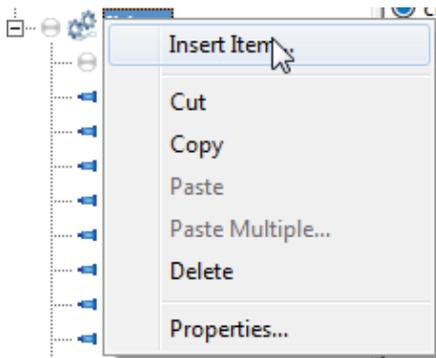


Fig. 6. Select Insert Item.

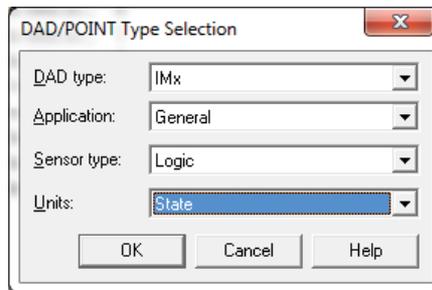


Fig. 7. DAD/POINT Type Selection window.

6 From the **General** tab (→ fig. 8), name the point. From the **Setup** tab (→ fig. 9), set the **Device** and **Channel name**, and then set the **Active State** as "High". Repeat this for each channel.

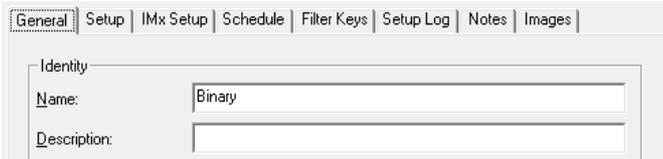


Fig. 8. Name the point.

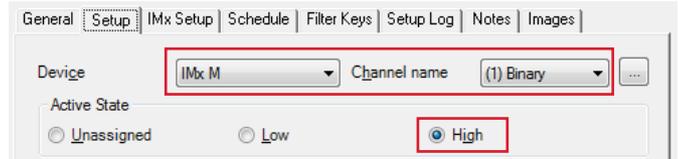


Fig. 9. Set the device, channel name and active state.

7 Go to the properties of the points for which you want to set up the acquisition condition.

- In the **IMx Setup** tab (→ fig. 10), click **Select** in the digital collection section.
- Choose the binary point and click **OK** (→ fig. 11).
- Check **Enable active range** and set the **Active state** as "High", then click **OK** (→ fig. 12).

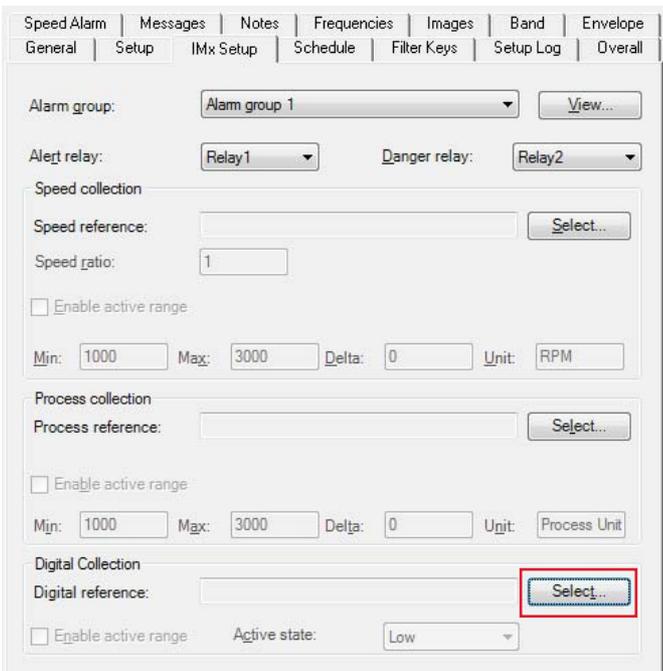


Fig. 10. Click Select from the Digital Collection section.

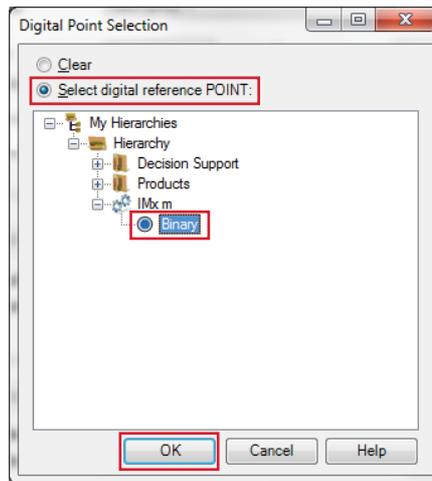


Fig. 11. Choose the binary point.

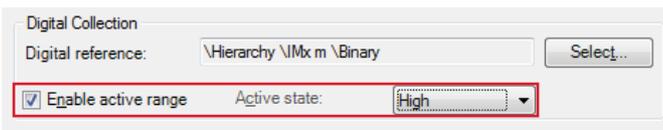


Fig. 12. Enable active range and set active state.

With this procedure, when a switch or switches are turned on (status high), data collection will start in the points with digital collection enabled.

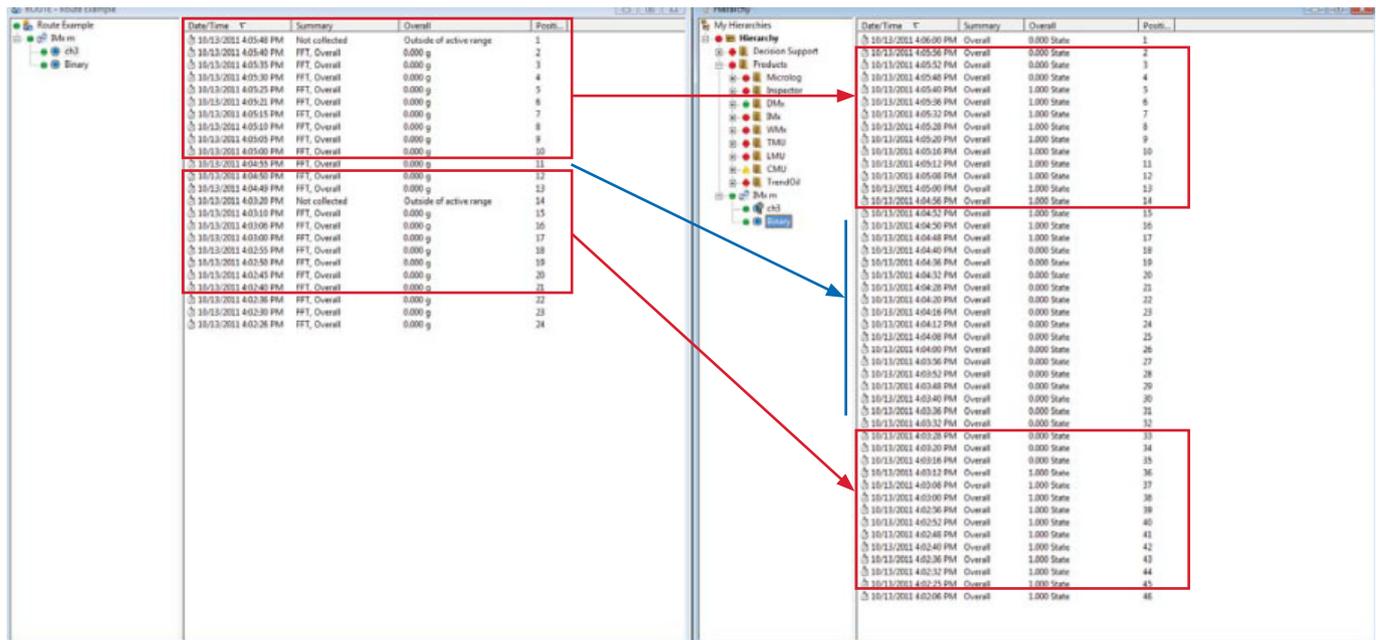


Fig. 13. List of routes and hierarchy.

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