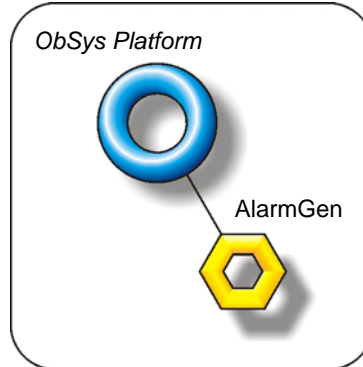


Product Engineering Guide

OSM v20 AlarmGen v12

Introduction

The OSM v20 AlarmGen v12 module, called AlarmGen OSM in this document, monitors up to 500 object values and generates alarms when exceptions occur with the value. The alarms generated are sent to an alarm object for further processing



AlarmGen monitors values in several ways:

Values can be No/Yes or Off/On values, in which case 'Alarm' or 'Ok' messages are sent.

Values can be numeric or float values, which are compared against high/low limits, in which case 'High', 'Low', or 'Ok' messages are generated

Values can have read faults, in which case 'Comm Alarm' or 'Comms Ok' messages are sent.

Engineering

Step 1 – Install OSM

Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Plug in AlarmGen OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the AlarmGen OSM to an available channel. Refer to '*ObServer v20 Application Engineering Guide*'.

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 3 – Configure AlarmGen Module

Use object engineering software to view and modify the module objects within the OSM, including the Alarm Object which is used as the destination for alarm messages.

Step 4 – Configure the AlarmGen System

Each alarm generator within the AlarmGen System can be set to poll a value to generate an alarm. Use object engineering software to view and modify the generator objects within the AlarmGen System.

Step 4 – Test the Alarm Generation

Change the values of polled objects, so that the AlarmGen generates alarm messages and sends them to the desired alarm processing module.

Engineering Reference

Alarms Generated

The AlarmGen generates alarms of the format:

<device>|<point>|<condition>|<priority>|<date>|<time>

Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object^[1]	Label	R/W	Type
Sc	AlarmGen System connected to channel c	-	[AlarmGen v12] ^[2]
Mc	AlarmGen Module connected to channel c	-	[OSM v20\AlarmGen v12]

Notes

- [1] The ObServer channel number, c, is a number in the range 1...40.
- [2] This object has a variable content and as such requires scanning.

Notes

ObSys Licence Units

The AlarmGen OSM uses 40 licence units.

Revision History

Version	Build Date	Details
1.0	16/9/97	Driver released.
1.1	4/11/98	Modification: Added Coded alarm
1.2	8/12/99	Modification: Added Communications Check alarm
1.2	12/11/04	Modification: Communications Check alarm now generates Fault alarm when Source Fails > 2.