

Lesson 5. Operator Interface

Objectives:

- Describe points
- Describe displays

What is a Point?

- window to a field value, device or the controller
 - e.g., pump status, oven temperature, process variable (PV) of a control loop, CEE status or I/O module status
- points can be used to:
 - monitor & control a process
 - generate an alarm
 - collect historical data
 - start up an application
 - activate and monitor an I/O module

Points

- many point types
 - analog
 - device control
 - hardware
 - status
 - timer
 - numeric
 - flag
 - SCM
 - etc.
- PlantScape implements points through Control Builder
- point detail displays provide read / write access to Controller

Procedure for Defining a Point

Step 1. Create an object in Control Builder for each point in your system.

Step 2. Complete fields on the Parameter Configuration screen for each point.

Step 3. Download the point data from Control Builder to the server database

What is a Point Detail Display?

- **multi screen summary of parameters**
- **used to monitor and control CEEs and IOMs**
- **used to monitor and control CMs and SCMs**
 - **alarms / messages**
 - **historical data**
 - **status information**

Displays

- standard and custom
 - standard displays are supplied with PlantScape database and they include details, trends, groups and status displays
 - custom displays are application specific, built with Display Builder, allow full, secure read/write control of process
- point detail displays can be standard or custom