ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L71147 – PUMP CONTROLS

Learning Legacy Document

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50080**

Document Revision: **6.0**

Document History:

Revision:	Date:	Prepared by:	Checked by:	Authorised by:	Reason for Issue:
1.0	09-Nov-2012	[redacted]	[redacted]	[redacted]	First Issue
2.0	11-Oct-2013	[redacted]	[redacted]	[redacted]	Standardisation of Attribute Names and New Branding
3.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Attribute Renamed Asset Description Updated Asset Tag Identification Section Updated
4.0	19-Sep-2014	[redacted]	[redacted]	[redacted]	Approvals Added Consultations Removed
5.0	27-Aug-2015	[redacted]	[redacted]	[redacted]	Labelling Section Updated
6.0	15-Nov-2016	[redacted]	[redacted]	[redacted]	Attributes added

This document contains proprietary information. No part of this document may be reproduced without prior written consent from the chief executive of Crossrail Ltd.

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

© Crossrail Limited **RESTRICTED**

Contents

1 Introduction **3**
1.1 Asset Details **3**
1.2 Description **3**
1.3 Related Functions **3**
2 Asset Tag Identification Rules **4**
2.1 Example Images **4**
3 Attributes **5**
3.1 Generic Attributes **5**
3.2 Class Specific Attributes **5**
4 Performance Data **7**
5 Labelling **7**
6 Other Information **7**
7 Reference Material **7**
8 Crossrail Technical Approvals **8**

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED

1 Introduction

1.1 Asset Details

Class Code:	L71147
Class Name:	Pump Controls
Class Lineage:	Construction Products>Services>Supply/storage/distribution of liquids and gases>Water and general supply/storage/distribution>Pumps for water supply/distribution>Pump Controls

1.2 Description

Pump Controls are devices that regulate and control the flow or pressure of liquid and/or gases. The controller secures the correct pressure or flow rate by opening or closing valves to allow the passage of substances.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-BAF-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

2.1 Example Images

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

© Crossrail Limited RESTRICTED

3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Pump Control Description		CH			Single pump control plus high level alarm; Fail-safe redundant alarm/controller from a single level sensor.
Input Voltage (Volts)	Volts	NU	0		The input voltage of the unit
Number of Outputs (#)	#	NU	0		The number of pumps which can be controlled
Power Rating (kW)	kW	NU	2		The power rating of the unit
Start Mechanism		PD		DOL Inverter SD	What is the start mechanism of the controller?
Length (Millimetres)	Millimetres	NU	0		The length (width) of the control panel from left to right.
Height (Millimetres)	Millimetres	NU	0		The height of the control panel from top to bottom.
Depth (Millimetres)	Millimetres	NU	0		The depth of the control panel from front of panel to back of unit.
Weight (Kilograms)	Kilograms	NU	2		The gross weight of the panel unit.

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System

© Crossrail Limited RESTRICTED

da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED

4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard -CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED

8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Lead Mechanical & Electrical Plant (MEP) Engineer	19-Sep-2014

Learning Legacy Document

Document uncontrolled once printed. All controlled documents are saved on the CRL Document System
© Crossrail Limited RESTRICTED