ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L755243 - TEMERATURE SENSORS

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1 Introduction

1.1 Asset Details

Class Code:	L755243
Class Name:	temperature Sensors
Class Lineage:	Construction Products>Services>Climate control plant and equipment (HVAC)>Measuring, detecting and control devices>Plant and services control>Sensors (Pressure Vibration Temperature) > Temperature Sensors

1.2 Description

Temperature Sensors are devices used to precisely measure temperature, and are suitable for harsh industrial conditions. They can be an integrated part of another asset. They consist of a sensor mechanism and a transmitter to send information to the control room or controlling devices as required.

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)

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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. C125-BRS-12345

2.1 Example Images

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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
Maximum Operating Temperature (Degrees Celsius)	Degrees Celsius	NU	2		The maximum operating temperature of the sensor
Minimum Operating Temperature (Degrees Celsius)	Degrees Celsius	NU	2		The minimum operating temperature of the sensor
Temperature Sensor Accuracy (+- % Degrees Celsius)	+- % Degrees Celsius	NU	2		Accuracy of vibration sensor
Temperature Sensor Repeatability (Minutes)	Minutes	NU	2		Sensor repetition
Operating Voltage (Volts)	Volts	NU	0		Operating voltage of the sensor
Current (milliamps)	Milliamps	NU	0		Sensor current requirements

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

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

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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 document - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Electrical Engineer	19-Sep-2014

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