

TECHNICAL DATA SHEET - DISTRIBUTION FAULT LOCATION

As part of the embedded event classification system sub.net can report on the possible locations of a multi-phase fault in a distribution network. This uses a local impedance model of the outgoing circuits to list the distance to the nearest named nodes in the network. The model can also include an OS map reference and an asset database identifier. This information can be sent to the field crew within a matter of minutes which can improve the supply restoration time and hence reduce the Customer Minutes Lost (CML).

System	Primary Transformer
Class	Line fault - self clearing (transient fault)
Trigger	Analogue under, 1:T1 Vrn
Event priority	4
Fault type	A-C
Fault level	1580.79 A
Fault resistance	1.126 R
Ambient temperature	16.8 C

If an event is classified as a downstream fault an algorithm is used to identify the fault type and the phases involved. The fault impedance is then computed and this is looked up in the local model and the distance from named nodes are added to the event report. If a local impedance model is not available the fault resistance listed in the event report summary may be used with a suitable digital mapping system to show the possible fault locations.

Line	Location	Easting	Northing	UDB
836-02	0.291 km past Line 1052 Pole 17 08/2731/001/P-BRN SPUR (towards Line 1052 Pole 25 SPUR)	227701.44	330790.78	12531161
836-02	0.135 km before Line 1061 Pole 4 08/2730/001/P-CAU	227472.87	330594.95	10260873

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