



DI-8111 SLOT 3

TERMINAL No.	SIGNAL	EQUIPMENT
X1 TERMINAL 9	COM	COMMON TO INPUTS D00 - D07
X1 TERMINAL 10	COM	COMMON TO INPUTS D00 - D07
X2 TERMINAL 9	COM	COMMON TO INPUTS D10 - D17
X2 TERMINAL 10	COM	COMMON TO INPUTS D10 - D17

X1 TERMINAL 3	DI-2	OAFD RELAY TRIP
X1 TERMINAL 4	DI-3	OAFD RELAY DEFECT

X2 TERMINAL 7	DI-16	'B' BATTERY CHARGER FAIL
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NB:
CABLE IS SUPPLIED WITH MODEM & TO BE CONNECTED AS SHOWN. SPARE GREEN CORE IS TO BE INSULATED & ISOLATED.

NOTES:

- THIS DRAWING SHOWS THE SCADA PANEL TERMINAL LAYOUT AND CABLING WHICH IS TO BE USED IN CONJUNCTION WITH RMICB SUBSTATIONS WHERE ARC FLASH DETECTION UPGRADE IS INSTALLED. IT SHOULD BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE.
- ADDITIONAL TERMINALS, WIRING AND CABLING TO MARSHAL SIGNALS BETWEEN VARIOUS CONTROL AND PROTECTION PANELS LOCATED INSIDE THE SUBSTATION ARE TO BE MOUNTED INSIDE THE SCADA PANEL (ZM) AS SHOWN ON THIS DRAWING.
- WIRING FOR THESE ADDITIONAL CONNECTIONS ARE TO BE 7/0.40, 0.6kV V75 GRADE WITH PVC INSULATION. ALL INSULATION IS TO BE GREY COLOURED EXCEPT FOR EARTH WIRES WHICH ARE TO BE GREEN/YELLOW.
- ALL WIRING TO HAVE IDENTIFICATION FERRULES FITTED AT BOTH ENDS OF WIRE ADJACENT TO TERMINALS WHERE POSSIBLE. WIRE IDENTIFICATION CODES TO BE IN ACCORDANCE WITH THIS DRAWING. CABLE NAMING TO FOLLOW THIS DRAWING.
- THE 10Bu IS THE 30V 'B' DC PROTECTION +VE SUPPLY, NOT TO BE USED FOR OTHER PURPOSES.
- ALARM AND SIGNAL CABLE SCREENS TO BE EARTH AT SCADA CABINET ONLY.
- NOT SHOWN: NETWORK CONNECTION BETWEEN MODEM & SCADA CPU X3 PORT (SLOT 1). MODEM ANTENNA, MOUNTED AS SUITED TO INSTALLATION.

PANEL ABBREVIATION TABLE

AFI	ARC FLASH DETECTION INDICATION PANEL
B	48V - 30V(TAPPED) DC 'B' BATTERY
BCB	BATTERY CHARGER B
BTB	B BATTERY TERMINATION BOX (LOCATED NEAR B BATTERY)
OAFD	OPTICAL ARC FLASH DETECTION PROTECTION PANEL

TAGNAME	MFG	CATNO	DESC	REF DWG
DC-DC	SNAPTCH	GB30-4812	DC/DC CONVERTER 48VDC TO 12VDC 30W	-
M	SIERRA WIRELESS	RV50X	4G MODEM	-
SCADA UNIT	SIEMENS	A8000	SICAM A8000 UNIT (CPU, POWER MODULE, 2 OFF DI)	-
ZPM	SIEMENS	PS-8620	SLOT 2 POWER MODULE FOR SICAM A8000 UNIT	-
X1	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
X2, X3	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-
X3, XS1	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 37676	-
XS1-2	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-
E	WEIDMULLER	EK 2.5N	RAIL MOUNTED EARTH TERM CAT No.47436	-

LEGEND

CAD DRAWING DO NOT MANUALLY AMEND

AMENDMENTS

1. REF D2 & D7 CABLE '8BD' DESTINATION AMENDED TO MATCH DRAWING Z27360 SNOZ. AMENDED PANEL DESTINATION TABLE. L.MARTINUZZI 17/05/2013

CHECKED: L.MARTINUZZI
APPROVED: M.BENNETT

2. DRAWING REFERENCES MODIFIED.

E.KAIROUZ 27-09-2016
CHECKED: C.MURPHY
APPROVED: C.MURPHY
PN: SM-16789
TRIM REF: D16/292602

3. BORDER & TITLE BLOCK UPDATED.
REF REVISIONS CLOUDS IN RED: AMENDED SCADA RELAY TYPE & CONNECTIONS. ADDED SCADA RELAY TERMINATIONS. ADDED DC-DC CONVERTER & X3 TERMINALS. AMENDED NOTES ADDED NOTE 7.
L.MARTINUZZI 01-06-2023
CHECKED: M.BENNETT
APPROVED: M.BENNETT

ASSOCIATED DRAWINGS

DISTRIBUTION SUBSTATION SCHEMATIC WITH H2 LV BOARDS WITH LV TRANSFORMER LINKS WITH CUSTOMER SUPPLY PANELS WITH OAFD	242878-1
RMICB SUBSTATIONS WITH H2 LV BOARD WITH OPTICAL ARC FLASH DETECTION C&P DRAWINGS	227360 TO 227366

Ausgrid

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ISSUED FOR CONSTRUCTION

SCALE	NTS
DESIGNED	-
DRAWN	L.MARTINUZZI
CHECKED	M.BENNETT
APPROVED	B.HAINES
DATE	23/10/2012
TRIM REF	-
PROJECT NUMBER	SM 6717-1-2

DISTRIBUTION SUBSTATION SCADA PANEL WIRING & CABLE CONNECTIONS WITH BUSBAR PROTECTION WITH OAFD

SIZE	DRAWING No	SHEET	AMD
A2	227363	1	3

C&P - Distribution Substations