



APPROVED PRODUCTS AND MANUFACTURERS - Electrical

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5.0		Complete document revision. All products re-appraised.	16/11/2009	M.Mills	
5.1		Revised DC Power supplies, minor changes to various part numbers	September 2010		
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1. INTRODUCTION

This document lists products approved by Hunter Water for use in the water and sewerage networks, together with the names of manufacturers of the approved product. Information on suppliers of the products should be obtained directly from the manufacturers.

The document is intended to be read in conjunction with:

- (i) STS 500 – *General Requirements for Electrical Installations*.
- (ii) STS 550 – *General Requirements for SCADA and Automation Systems*
- (iii) The project technical specification and design drawings.
- (iv) WSAA Water Supply and Gravity Sewerage Codes Hunter Water Edition, Hunter Water Corporation Water and Sewer Design Manual, Standard Technical Specifications & Standard Construction Practice (Drawings).
- (v) The Water Services Association of Australia (WSAA) Product Specifications Hunter Water Edition

Further information and copies of Hunter Water Design Standards are available on the Hunter Water website:

<http://www.hunterwater.com.au/Building-and-Development/Drawings-Plans-Specifications/>

Further information on the process for product authorisation and the current copy of this document is available on the Hunter Water website:

<http://www.hunterwater.com.au/Building-and-Development/Approved-Designers-Suppliers-and-Contractors/Approved-Products-and-Manufacturers.aspx>

General background information on products and materials is also available on the WSAA website (www.wsaa.asn.au).

Not all products and materials appraised by WSAA are approved for use in the Hunter Water systems. HWC undertakes an independent assessment of the suitability of each product with HWC infrastructure, requirements and policies.

2. AUTOMATION EQUIPMENT

2.1. ETHERNET SWITCHES – Managed Corporate Network

Manufacturer	Comments
CISCO	Managed by Hunter Water ICT. Contact your Hunter Water representative for additional information.

2.2. ETHERNET SWITCHES – Managed Automation Control Network

Manufacturer	Comments	Reference
SCHNEIDER CONNEXIUM	For PLC remote I/O applications. Managed Switches shall be used for all PLC IO applications. Where the distance exceeds 550 metres, single mode optical fibre managed switches shall be used.	Managed by Hunter Water automation group. Contact your Hunter Water representative for additional information.

2.3. HMI Screens

Manufacturer	Comments	Reference
SCHNEIDER	15" Colour Touch (Requires both components for a complete touch screen)	HMIG3U HMIDT732
SCHNEIDER	5.7" colour touch	HMISTU855

2.4. PLC

Manufacturer	Comments	Reference
SCHNEIDER	M580 Level 1 PLC	BMEP581020
SCHNEIDER	M580 Level 2 PLC	BMEP582040
SCHNEIDER	M580 Level 5 PLC	BMEP585040

2.5. SCADA

Manufacturer	Comments
<i>SCHNEIDER</i>	Geo SCADA for Network and Treatment Plants

2.6. TELEMETRY

Manufacturer	Comments	Reference
<i>SCHNEIDER</i>	TBUP334-EC55-AB00S	SCADAPack 334E
<i>SCHNEIDER</i>	Trio Q series Digital radio	TBURQR4HH-E00E1L00
<i>CISCO</i>	Industrial router modem	Managed by Hunter Water automation group. Contact your Hunter Water representative for additional information.

2.7. ANTENNA

Manufacturer	Comments	Reference
<i>RF Industries</i>	6.5dBi Multi-band Collinear antenna - For Modem antenna installations	COL7195
<i>RF Industries</i>	6 Element Yagi, 480-520 MHz, 9dBd for standard digital radio installations	YB6-62

3. POWER EQUIPMENT

3.1. CIRCUIT BREAKERS - ACB

Manufacturer	Comments	Reference
TERASAKI	Draw out or fixed as per STS 500	TemPower AR
SCHNEIDER	Draw out or fixed as per STS 500	Masterpact NXT

3.2. CIRCUIT BREAKERS - MCCB

Manufacturer	Comments	Reference
TERASAKI	Electronic Only	TemBreak Pro
SCHNEIDER	Electronic Only	Compact NSX

3.3. CIRCUIT BREAKERS - MCB / RCBOs

Manufacturer	Comments	Reference
SCHNEIDER	6kA Minimum	Acti 9 Series
TERASAKI	6kA Minimum	DIN-T Series
CLIPSAL	6kA Minimum - Load Centres Only	4CB Series

3.4. MAIN SWITCH BOARDS & MOTOR CONTROL CENTRES

Manufacturer	Comments	Reference
B & R	Custom boards by exception	Signature series

3.5. DISTRIBUTION BOARDS

Manufacturer	Comments	Reference
<i>SCHNEIDER</i>	IP54, X15 (Pad lockable Handle for outdoor applications)	MD Series
<i>NHP</i>	IP54, X15 (Pad lockable Handle for outdoor applications)	Concept Premier Series
<i>CLIPSAL</i>	Downstream of distribution boards only.	4 Series PVC

3.6. CONDUIT (FLEXIBLE METALLIC)

Manufacturer	Comments
<i>ANACONDA</i>	Nil
<i>ADAPTAFLEX</i>	Nil

3.7. SWITCHBOARD CABLE DUCT

Manufacturer	Comments	Reference
<i>Phoenix</i>	Nil	CD

3.8. EMC CABLE GLANDS

Manufacturer	Comments	Reference
<i>ALCO</i>	For braided shielded motor cables	ELMEMC
<i>LAPP</i>	For braided shielded motor cables	SKINTOP MS-M Brush Type

3.9. GPOs AND SWITCHES - INDOOR

Manufacturer	Comments
CLIPSAL	Nil
HPM	Nil

3.10. GPOs AND SWITCHES - WEATHERPROOF

Manufacturer	Comments
CLIPSAL	56 Series
NHP	ISO Series

3.11. INTERNAL SWITCHBOARD LIGHTING

Manufacturer	Comments	Reference
NARVA	LED strip light for switchboard internal lighting	87543

3.12. LOAD BREAK SWITCHES

Manufacturer	Comments	Reference
SCHNEIDER	Including generator connection 3 position switches	INS
SOCOMEK	Including generator connection 3 position switches	SLB/SCO

3.13. POWER HEALTHY RELAY (PHASE FAILURE RELAY)

Manufacturer	Comments	Reference
Crompton	Power Healthy Relay with 24VDC aux supply	PVE-380/480-AUX

3.14. POWER FACTOR CORRECTION

Manufacturer	Comments	Reference
SCHNEIDER	Min 525V rating	Nil
ABB	Min 525V rating	Nil

3.15. POWER METERS

Manufacturer	Comments	Reference
SCHNEIDER	With remote mounted door display	METSEPM5563RD
SCHNEIDER	With remote mounted door display	PM8244

3.16. SURGE ARRESTORS – POWER

Manufacturer	Comments	Reference
PHOENIX	FLT-SEC-T1+T2-3S-350/25FM 3 Phase + N with alarm contact	2905470
PHOENIX	FLT-SEC-T1+T2-1S-350/25FM 1 Phase + N with alarm contact	2905466
PHOENIX	VAL-SEC-T2-3S-350-FM 3 Phase + N with alarm contact	2905340
PHOENIX	VAL-SEC-T2-1S-350-FM 1 Phase + N with alarm contact	2905333

3.17. SURGE ARRESTORS – RADIO COMMS (COAX)

Manufacturer	Comments	Reference
NOVARIS	Nil	CN-FF-90-3-M

3.18. SURGE ARRESTORS – INSTRUMENTATION (ANALOGUE INPUTS)

Manufacturer	Comments	Reference
<i>NOVARIS</i>	For use at PLC end	SL36-G
<i>NOVARIS</i>	For use at instrument end	SL36-EC90
<i>NOVARIS</i>	For power control	SSP-6A

3.19. AC UPS

Manufacturer	Comments
<i>Schneider APC</i>	Nil
<i>Riello</i>	Nil
<i>Eaton</i>	Nil
<i>Alpha</i>	High temperature applications only

4. CONTROL EQUIPMENT

4.1. DC UPS BATTERY BACKUP

Manufacturer	Comments	Reference
PANASONIC	12V – 40A/h	UP-VW1245P1
CSB	12V – 40A/h	GP1272F2

4.2. DC UPS

Manufacturer	Comments	Reference
PULS	24VDC Input, 24VDC Output	UB10.241

4.3. CONTACTORS

Manufacturer	Comments	Reference
SPRECHER & SCHUH	With low level signal auxiliaries (if used)	CA7, CA9
SCHNEIDER	With low level signal auxiliaries (if used)	Tesys D, Tesys F

4.4. FLOAT SWITCHES

Manufacturer	Comments	Reference
FLYGT	Nil	ENM10

4.5. INDICATING LIGHTS

Manufacturer	Comments	Reference
SPRECHER & SCHUH	Superbright LED's only	D7
SCHNEIDER	Superbright LED's only	ZB4, ZB5

4.6. ILLUMINATED PUSH BUTTONS

Manufacturer	Comments	Reference
SPRECHER & SCHUH	Superbright LED's only	D7
SCHNEIDER	Superbright LED's only	ZB4, ZB5

4.7. LCD DISPLAYS

Manufacturer	Comments	Reference
CROMPTON INSTRUMENTS	For level indication	128-10AB
WEIDMULLER	For level indication	LPD350

4.8. LIMIT SWITCHES – CONTROL

Manufacturer	Comments	Reference
SCHMERSAL	Plastic or Alloy, depending on application	335 or 336
SCHNEIDER	Plastic or Alloy, depending on application	XCK-S or J

4.9. LIMIT SWITCHES – SWITCHBOARD INTERNAL LIGHTING SECURITY

Manufacturer	Comments	Reference
SCHNEIDER	Plunger roller head	XCKD2102P16

4.10. MOTOR PROTECTION RELAYS

Manufacturer	Comments	Reference
SPRECHER & SCHUH	Nil	CEP

<i>SCHNEIDER</i>	Nil	Tesys T
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4.11. POWER SUPPLIES

Manufacturer	Comments	Reference
<i>WEIDMULLER</i>	240VAC / 24VDC, 10 Amp	1478130000
<i>PULS</i>	240VAC / 24VDC, 10 Amp	CS10.241
<i>PHOENIX</i>	240VAC / 24VDC, 10 Amp	CMPV13

4.12. PRESSURE SWITCHES

Manufacturer	Comments	Reference
<i>IFM</i>	0 - 10 bar. Use with angle headed M12 cable	PK6524

4.13. PROXIMITY SWITCHES

Manufacturer	Comments	Reference
<i>IFM</i>	Stainless Steel or Plastic depending on application	Nil
<i>PEPPERL & FUCHS</i>	Stainless Steel or Plastic depending on application	Nil

4.14. PUSH BUTTONS

Manufacturer	Comments	Reference
<i>SPRECHER & SCHUH</i>	Nil	D7
<i>SCHNEIDER</i>	Nil	ZB4, ZB5

4.15. RELAYS - CONTROL

Manufacturer	Comments	Reference
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SPRECHER & SCHUH	Nil	CS7 or CS8
SCHNEIDER	Nil	Tesys D or K

4.16. RELAYS – PLC INTERFACE - MECHANICAL

Manufacturer	Comments	Reference
OMRON	Gold flashed, low level switching c/w LED and diode suppression	Nil
WEIDMULLER		Nil
SCHNEIDER		Nil
PHOENIX		Nil

4.17. RELAYS – PLC INTERFACE – OPTICAL

Manufacturer	Comments	Reference
WEIDMULLER	240VAC/24VDC, 24VDC/24VDC depending on application, 100mA	Termopto

4.18. SELECTOR SWITCHES – 22.5mm

Manufacturer	Comments	Reference
SCHNEIDER	Metal only	ZB4-BJ

4.19. SELECTOR SWITCHES – CAM

Manufacturer	Comments	Reference
KRAUS & NAIMER	Gold flashed contacts	CAD11

4.20. SIGNAL CONDITIONING - ANALOGUE ISOLATORS

Manufacturer	Comments	Reference
RED LION	With PGMMOD programmer	IAMS

4.21. SIGNAL CONDITIONING – THERMISTOR RELAYS

Manufacturer	Comments	Reference
<i>SPRECHER & SCHUH</i>	Manual reset	RT7
<i>SCHNEIDER</i>	Manual reset	LT3

4.22. SOFT STARTERS

Manufacturer	Comments	Reference
<i>ABB</i>	Depending on application	PSE, PSTX
<i>SCHNEIDER</i>	Depending on application	ALTISTART 22, 48

4.23. THERMAL OVERLOADS

Manufacturer	Comments	Reference
<i>SPRECHER & SCHUH</i>	To match associated contactor	CT 7
<i>SCHNEIDER</i>	To match associated contactor	TeSys D

4.24. VARIABLE SPEED DRIVES

Manufacturer	Comments	Reference
<i>SCHNEIDER</i>	Depending on Application	ALTIVAR 630/650
<i>ABB</i>	Depending on Application	ACQ580, ACS880

4.25. TERMINALS - POWER

Manufacturer	Comments
<i>WEIDMULLER</i>	Nil
<i>PHOENIX</i>	Nil

4.26. TERMINALS - CONTROL

Manufacturer	Comments
WEIDMULLER	Nil
PHOENIX	Nil

5. INSTRUMENTATION EQUIPMENT

5.1. CHLORINE CONTROLLERS

Manufacturer	Comments	Reference
SIEMENS	Nil	Acutec
SIEMENS	Nil	PCU / SCU
SIEMENS	Nil	Chlorinators

5.2. CHLORINE RESIDUAL MEASUREMENT

Manufacturer	Comments	Reference
ENDRESS & HAUSER	Nil	Memosens
SIEMENS	c/w Variasens Measuring Cell & FC1 Sensor	DEPOLOX 5 SFC
HACH	Nil	Nil

5.3. DISSOLVED OXYGEN

Manufacturer	Comments	Reference
ROYCE	Analyser with Electro chemical cleaning sensor	9200/96A
ENDRESS & HAUSER	Nil	Nil

5.4. FLOW MEASUREMENT – MAGNETIC

Manufacturer	Comments	Reference
ABB	For applications where approved.	WaterMaster
ABB	For applications where approved.	AquaMaster 4
ENDRESS+HAUSER	MAGFLOW	PROMAG L400
YOKOGAWA	Only to be used in Chemical installation specifically with Ferrous	AXG, AXW

5.5. FLOW MEASUREMENT – MASS

Manufacturer	Comments	Reference
<i>ROSEMOUNT</i>	For Mass Flow applications	Micro Motion
<i>ENDRESS+HAUSER</i>	Nil	Nil
<i>ABB</i>	Nil	Nil

5.6. FLOW MEASUREMENT – ULTRASONIC

Manufacturer	Comments	Reference
<i>ENDRESS & HAUSER</i>	Clamp-on applications only	Nil

5.7. FLOW MEASUREMENT – THERMAL

Manufacturer	Comments	Reference
<i>ABB</i>	Nil	FMT 250 FMT 450
<i>Endress & Hauser</i>	Nil	T-mass B65i T-mass B150

5.8. FLUORIDE MEASUREMENT

Manufacturer	Comments	Reference
<i>PROMINENT</i>	Fluoride Meter Mounted on Panel	DULCOMETER® D1C
<i>HACH</i>	Nil	Nil

5.9. LEVEL MEASUREMENT - HYDROSTATIC

Manufacturer	Comments	Reference
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VEGA	1 or 2.5 bar depending on application	VEGAWELL 52 series
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5.10. LEVEL MEASUREMENT - RADAR

Manufacturer	Comments	Reference
VEGA	VEGA C series radar	C23

5.11. LEVEL MEASUREMENT – CONDUCTIVITY PROBES

Manufacturer	Comments	Reference
IFM	Used for HAZCHEM installs	LI5131

5.12. LEVEL MEASUREMENT – CAPACITIVE PROXIMITY SWITCH

Manufacturer	Comments	Reference
IFM	Used for HAZCHEM installations on tanks. Tank thickness and make for compatibility needs to be considered	KQ6004

5.13. LEVEL MEASUREMENT – TANK SIGHT GLASS

Manufacturer	Comments	Reference
IFM	Used for HAZCHEM installations on tanks. Note – Level switches are not to be mounted to the sight glass. Purely a visual level	
WIKA	Used for HAZCHEM installations on tanks. Note – Level switches are not to be mounted to the sight glass. Purely a visual level	

5.14. pH MEASUREMENT

Manufacturer	Comments	Reference
ENDRESS & HAUSER		Memosens

<i>Siemens</i>	c/w Variasens Measuring Cell with pH sensor with cable and plug in card	Sitrans DEPLOX 5 SFC
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5.15. PRESSURE TRANSMITTERS

Manufacturer	Comments	Reference
<i>ROSEMOUNT</i>	1000 kPA,4-20mA OUTPUT, 1/4" NPT FEMALE	3051TG2A2A21BB4M4DOQ4
<i>ROSEMOUNT</i>	5500 kPA ,4-20mA OUTPUT, 1/4" NPT FEMALE	3051TG3A2A21BB4M4
<i>ROSEMOUNT</i>	6.2 mBAR, 4-20mA OUTPUT, TRADITIONAL FLANGE,316 SST,SST DRAIN/VENT	3051CD2A02A1BM5B1H2
<i>ROSEMOUNT</i>	DIFF PRESSURE MEASUREMENT	3051 SERIES
<i>IFM</i>	1 - 16 bar. Requires additional connection cable with right angled M12 connector.	PT5414
<i>VEGA</i>	VegaBar82 0-100kPa Pressure Transmitter	B82.IXLFSAGGSHXKIMAX
<i>VEGA</i>	VegaBar82 0-6000kPa Pressure Transmitter	B82.IXLFSAGKSHXKIMAX
<i>ENDRESS & HAUSER</i>	Nil	Nil

5.16. TURBIDITY MEASUREMENT

Manufacturer	Comments	Reference
<i>ENDRESS & HAUSER</i>		Memosens
<i>HACH</i>		

5.17. UV DISINFECTION

Manufacturer	Comments	Reference
<i>WEDECO</i>	Nil	Nil
<i>TROJAN</i>	Nil	Nil

6. CATHODIC PROTECTION EQUIPMENT

6.1. TRU UNITS

Manufacturer	Comments	Reference
CCE	Nil	HWC 3A/12V
CCE	Nil	HWC 5A/12V
CCE	Nil	HWC 10A/12V

6.2. MMO WIRE ANODES

Manufacturer	Comments	Reference
CCE	Nil	HWC 3mm MMO

6.3. ZINC REFERENCE ELECTRODES

Manufacturer	Comments	Reference
CCE	Nil	Borin SRE 006 ZFR

7. HIGH VOLTAGE EQUIPMENT

All High voltage switchgear and equipment to be selected in consultation with the Hunter Water High Voltage Installation Responsible Person.

Final selection to be approved by the Hunter Water High Voltage Installation Responsible Person or nominated representative.