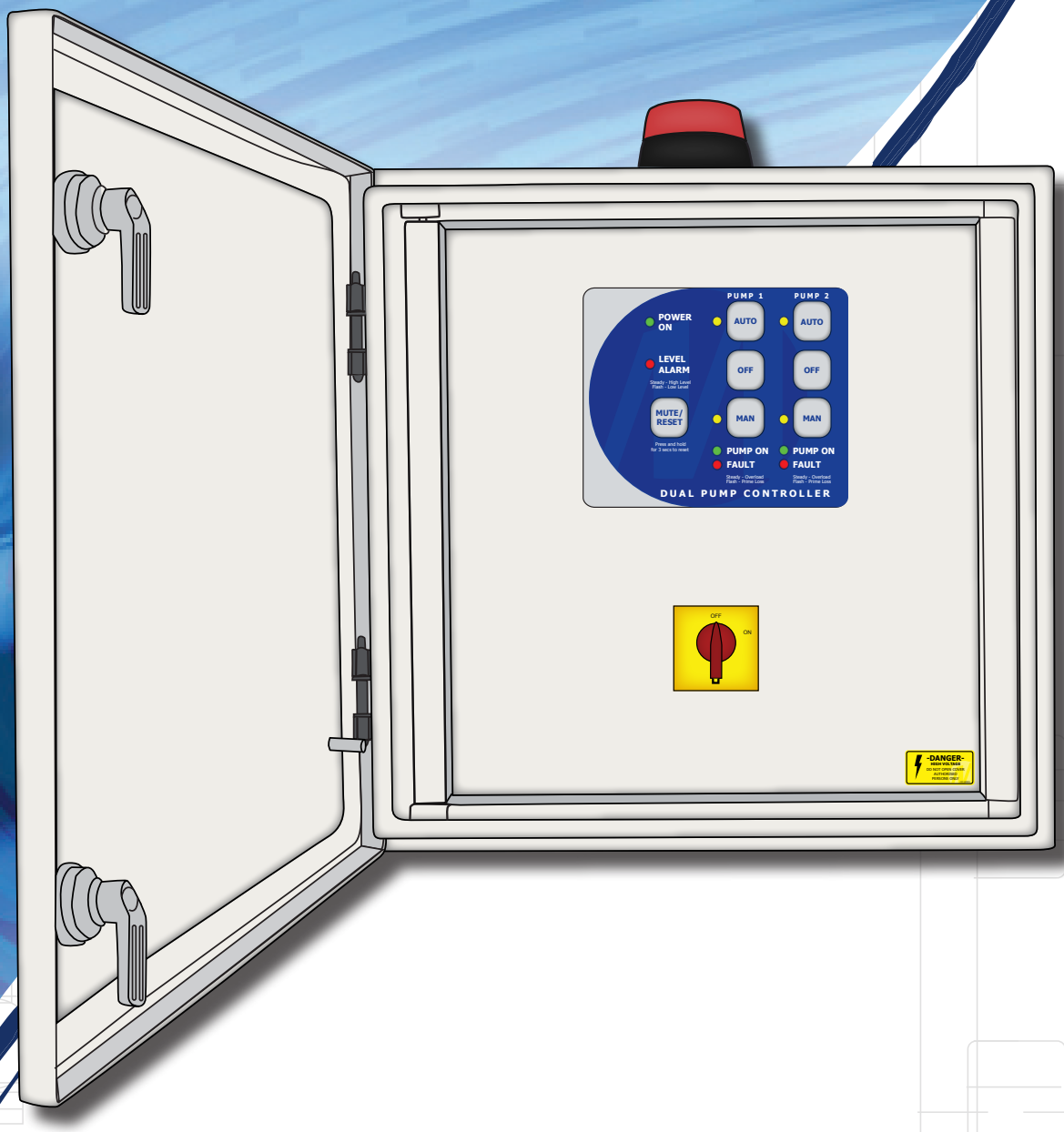
ATelec® Australia

PUMP**CONTROL**

Product Overview



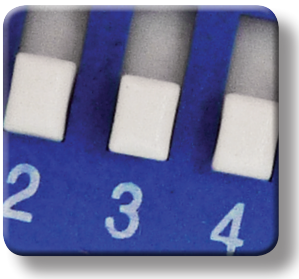
FPC-30220 | Single Phase Dual Pump Controller c/w BMS

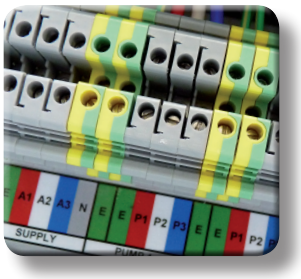
FPC-30220

Building on the success of the FPC-300 Series Dual Pump Controller, the new FPC-300-Advanced version, further enhances the ***"One controller does it all"*** concept, while at the same time, makes "simplicity of operation" even more user friendly. Although many unique features of the controller are common to all pumping applications, many "system specific" optional features, can be enabled or disabled at the flick of a switch.

Hardware Features

- IP 65 Weather Proof, Powder Coated Metal Enclosure c/w removable gland plate
- Lockable Main Isolator
- Individual Pump Isolation
- Circuit Breaker protected Control Circuit
- Low Voltage Control and input Circuitry
- Advanced Micro Processor Control Module
- Distinctive, Highly durable and aesthetically attractive Electronic Keypad
- Auto/Off/Manual Operation of Both Pumps
- Thermal Overload Protection of Pump Motors
- LED Indicator Lights for System Status indication
- Visual and Audible Alarms c/w Mute Switch
- User friendly, clearly labelled, Din Rail mounted, Input and Output Terminal Connection
- Individually Serial Numbered and logged for traceability and product support
- Owner/Operator, Installation and Operation Manual supplied with each controller

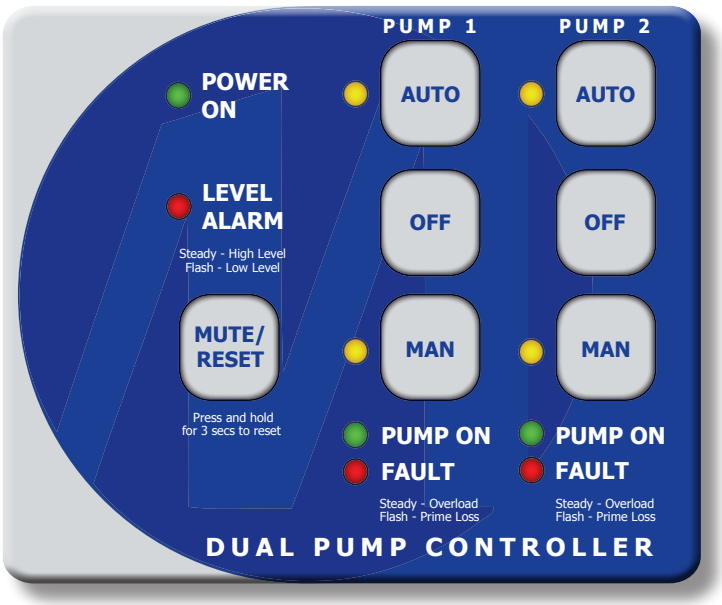




Australian Made

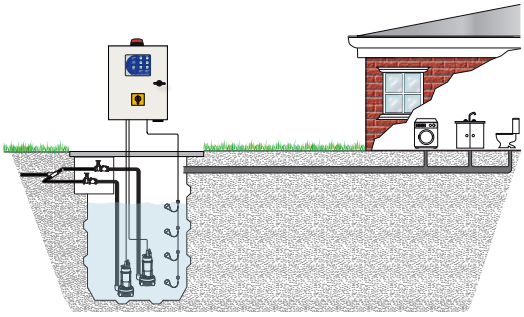
Function Features

- Auto Alternation of Pump Duty
- Provision for 4 digital + 1 Analogue inputs (typically Low Level, Stop/Start, Standby In and High Level)
- Lamp, Strobe and Buzzer Test feature
- Level Alarm Delay feature avoiding nuisance tripping
- Maximum Run Time and Auto Alternation Feature
- Anti Seize/Freeze feature, for Low Use and Seasonal Pumping applications
- Maximum Idle Time Feature, for "pump out" of residual in Pump Well situations
- Smart "Auto Silencing" and "Chirp Mode" audible Alarm
- Delayed Start and Minimum Run Time Feature
- Delayed Standby Pump Start, avoids two motors starting simultaneously
- Optional "Time Out" on Manual Pump Mode automatic reset to Auto
- No Flow/Pressure - Inbuilt Timer feature
- Interconnectable with Remote Status Indicator panel, via simple data connection
- Interconnectable with Building Monitoring System Module, via simple data connection

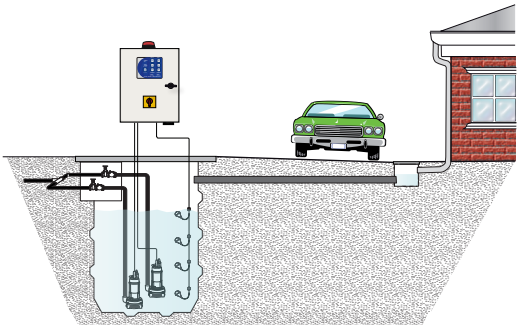


Australian Made

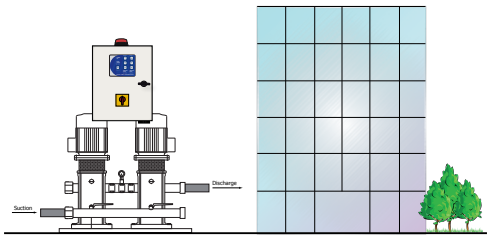
Typical Applications



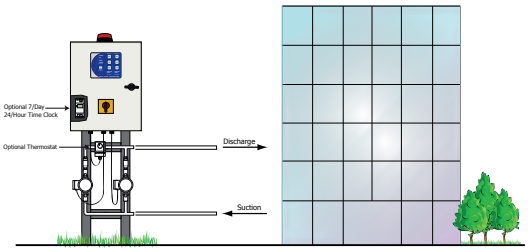
SUBMERSIBLE SEWAGE



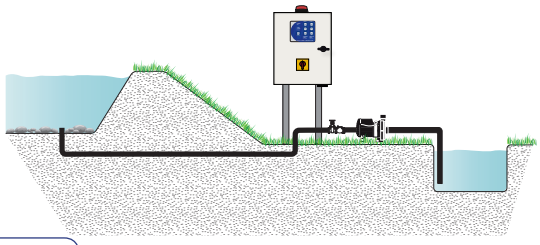
SUBMERSIBLE STORMWATER



CONSTANT PRESSURE



HOT WATER CIRCULATION

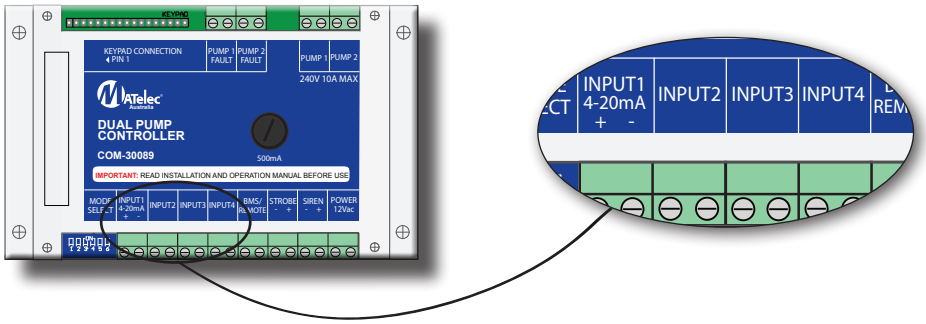


TRANSFER PUMPING

Australian Made

One Controller.....All Applications

Multiple Input Options

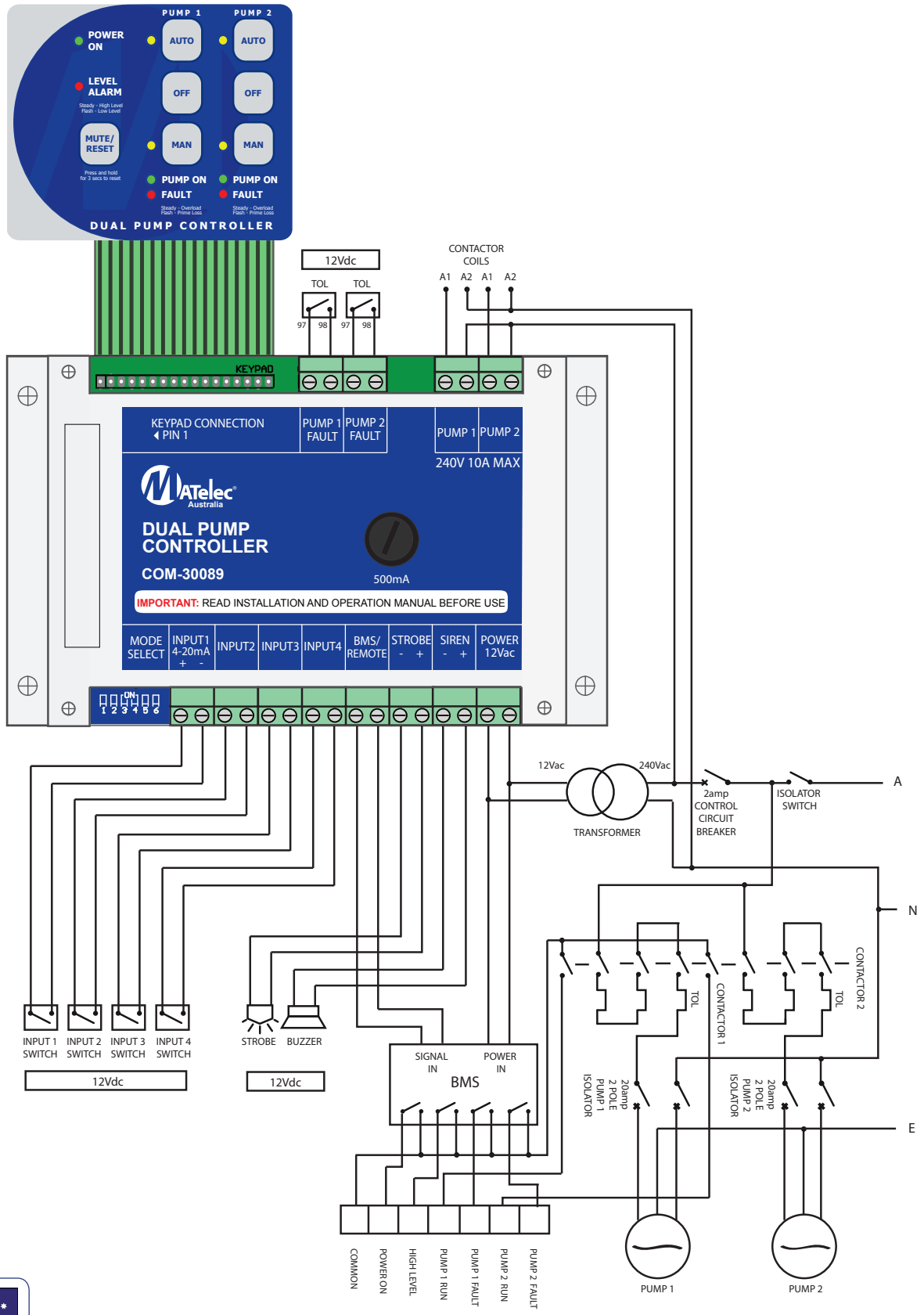


APPLICATION	Input 1	Input 2	Input 3	Input 4	MODE
SUBMERSIBLE - SEWAGE PUMPING SYSTEM					
Automatic Pumps	-	-	Bridge	-	A
Automatic Pumps + High Level Float	-	-	Bridge	High Level	A
2 Floats	-	-	Start/Stop	High Level	A
3 Floats	-	Stop	Start	High Level	A
3 Floats c/w Standby In	Standby Start		Start/Stop	High Level	A
4 Floats c/w Standby In	Standby Start	Stop	Duty Start	High Level	A
4 Floats c/w Low Level Alarm	Low Level	Stop	Start	High Level	B
Transducer (4-20mA) + Optional High Level Float	Transducer	-	-	High Level	A
SUBMERSIBLE - STORMWATER PUMPING SYSTEM					
Automatic Pumps	-	-	Bridge	-	A
Automatic Pumps + High Level Float	-	-	Bridge	High Level	A
2 Floats	-	-	Start/Stop	High Level	A
3 Floats	-	Stop	Start	High Level	A
3 Floats c/w Standby In	Standby Start		Start/Stop	High Level	A
4 Floats c/w Standby In	Standby Start	Stop	Duty Start	High Level	A
4 Floats c/w Low Level Alarm	Low Level	Stop	Start	High Level	B
Transducer (4-20mA) + Optional High Level Float	Transducer	-	-	High Level	A
HOT WATER RECIRCULATION SYSTEM					
No Thermostat	-	-	Bridge	-	A
With Thermostat	-	-	Thermostat	-	A
CONSTANT PRESSURE PUMPING SYSTEM					
Automatic (Press Control)	-	-	Bridge	-	A
Automatic (Press Control) + Standby In Switch	-	-	Bridge	Standby In	A
1 Pressure Switch	-	-	Start/Stop	-	A
1 Pressure Switch + Prime Loss	Prime Loss Sw	-	Start/Stop	-	C
2 Pressure Switches	-	Lead	Lag	-	D
2 Pressure Switch + Pressure Loss Sw.	-	Lead	Lag	Pressure Loss PS	D
2 Pressure Switch + Prime Loss Press/Flow Sw	Prime Loss Sw	-	Start/Stop	Low Press Sw	C
TRANSFER PUMPING SYSTEM					
1 Pressure or Float Switch	-	-	Work Level	-	A
As above + Prime Loss	Prime Loss Sw	-	Work Level	-	C
1 Pressure Start/Stop & Low Level Cut Out Float	-	-	Series Conn.	-	A
As above + Prime Loss	Prime Loss Sw	-	Series Conn.	-	C

One Controller.....All Applications

Australian Made

Wiring Diagram



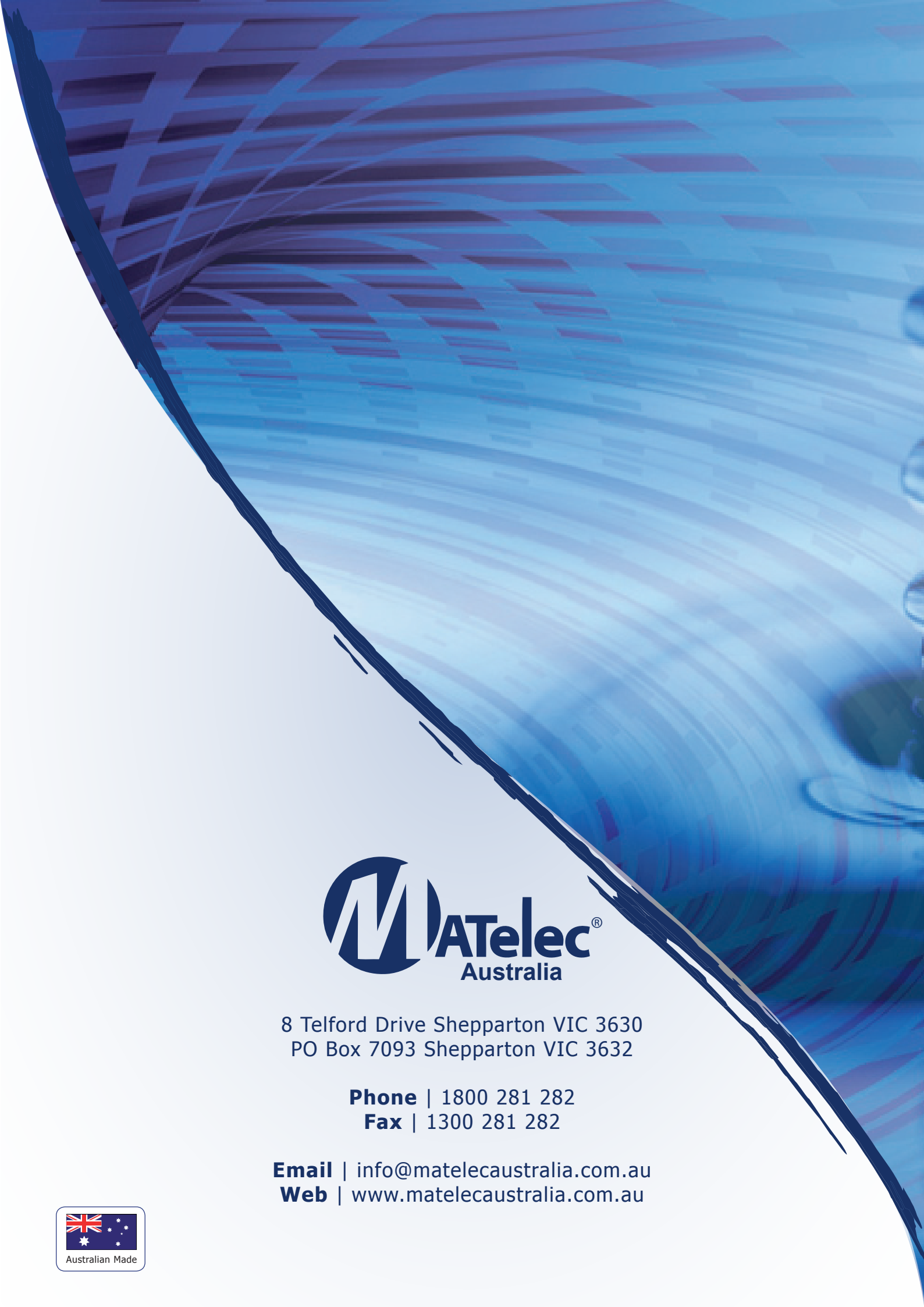
Australian Made

One Controller.....All Applications

The Range

Product Code	Voltage Rating	Contactor Rating	Overload Rating	Enclosure Size
FPC-30220-AA	240Vac	18Amp	1.6-2.5 Amp	400Hx400Wx200D
FPC-30220-A	240Vac	18Amp	2.5 - 4 Amp	400Hx400Wx200D
FPC-30220-B	240Vac	18Amp	4 - 6 Amp	400Hx400Wx200D
FPC-30220-C	240Vac	18Amp	7 - 10 Amp	400Hx400Wx200D
FPC-30220-D	240Vac	18Amp	9 - 13 Amp	400Hx400Wx200D
FPC-30220-E	240Vac	18Amp	12 - 18 Amp	400Hx400Wx200D

Notes



MATelec® Australia

8 Telford Drive Shepparton VIC 3630
PO Box 7093 Shepparton VIC 3632

Phone | 1800 281 282
Fax | 1300 281 282

Email | info@matelecaustralia.com.au
Web | www.matelecaustralia.com.au

Australian Made