



Model Number: **FarmTronics CMPro-SWB-PWM30A**

Firmware Version (02.03A)

The CMPro-SWB-PWM30A is a purpose-built Automation Switchboard for use in Mobile or Fixed Egg farming Caravans, Coops or Sheds.

The proprietary built ChickenMaster PRO™ Automation Controller is the brains behind the Switchboard allowing the user to fully Automate functions such as Open/Closing of Nest Box Gates, Open/Closing of External Doors, turning On/Off the Internal Lighting and incorporates a Courtesy Light Timer & Push Button for the Egg collection area.

A MANUAL Control Menu offers MANUAL control of all the automated functions within an easy to use four-button keypad.

The ChickenMaster PRO™ is the *ONLY* Automated free range egg farming controller which incorporates a Latitude and Longitude feature for all your automated functions.

This feature negates the need for the farmer to have to change time clock/timer settings as the seasons change throughout the year.

The ChickenMaster PRO™ knows when the Sun will Rise and Set based on your actual geographic location anywhere in the world.

It also uses our proprietary Daylight Length Requirement (DLR) feature which uses your geographic location and calculates how much actual Daylight is occurring and then adds the use of Artificial Light to achieve the programmed Daylight Length Requirement.

The DLR feature promotes the ultimate egg-laying environment for your hens.

All the Sunrise and Sunset variables can be fine-tuned by the farmer offering amazing flexibility to suit each individual farmer and their farming activities.

A 30 Amp PWM, 3 stage full function Solar Charge Controller with LCD display is also incorporated inside the Automation Switchboard and will keep your battery topped up and performing during those winter months.

The system can charge the following types of batteries:

Lead Acid (Flooded, GEL and AGM) and Lithium Battery (Li(LiCoMn)O₂ and LiFePO₄)

Default setting is for Lead Acid (Flooded, GEL and AGM)

The Enclosure is made from high impact UV Stabilised Polycarbonate and uses 304 Stainless steel mounting clips and lid locking clasps.

A Clear lid allows full visibility of all the LCD displays without having to open the enclosure lid.

The enclosure, Cable Wiring Glands and Courtesy Light Push Button have an IP67 Weatherproof rating and can be mounted in the harshest of environments.

Model Number	CMPRO-SWB-PWM-30A
Enclosure Type	Polycarbonate with Clear Lid, UV Stabilised
Enclosure IP Rating	IP67 Fully Weatherproof
Enclosure Dimensions	H280mm x W190mm x D100mm
Enclosure Mounting Method	External 304 Stainless Steel Mounting Clips (4 Off Supplied)
Enclosure Lid Locking Clasps	304 Stainless Steel (2 Off)
Cable Entry Method	3 Off M20mm IP67 Wiring Glands, Located at bottom of Switchboard
Working Temperature Range	-10.0 Celsius to +50.0 Celsius
ChickenMaster PRO™ Display	20 Character x 4 Line LCD Backlit Display
Solar Controller Display	LCD Picture-Graphics Display
Solar Panel Input Specification	12 Volt DC Maximum 390 Watts
Solar Panel Vmp Specification	Voltage at MAXIMUM POWER (Vmp) = 18 Volts DC (Maximum)
Solar Panel Voc Specification	Voltage at OPEN CIRCUIT (Voc) = 50 Volts DC (Maximum)
Solar Charge Controller TYPE	PWM - Pulse Width Modulated with 3 Stage Charging Function
USB Ports (2 Off)	Solar Controller USB Ports 2 Amps at 5.0 Volts DC
Switchboard Voltage Range	12 – 15 Volt DC
Battery Type Suitability	Lead Acid(Flooded, GEL & AGM) & Lithium (Li(LiCoMn)O ₂ & LiFePO ₄)
Battery Type Default Setting	Lead Acid(Flooded, GEL & AGM)
Solar & Battery Isolation Switch	1 x 20 AMP Single Toggle Switch, Double Pole Single Throw (DPST)
External Wiring Connections	15 Amp 12 Way Screw Terminal Strip
Wind Sensor Compatible (YES)	Configurable to work with the FarmTronics FT-WS Wind Sensor to close your External Doors on extremely windy days
Main Power Fuse Rating & Type	10 Amp Automotive Blade Fuse
Internal Lighting Output	Positive Supply 12 Volt DC Relay Output
Nest Box Gates Output	Bi-Directional 12 Volt DC Relay Output
External Doors Output	Bi-Directional 12 Volt DC Relay Output
External Door High Current Relay Module Compatible (YES)	Compatible with the XP Range of Expansion Modules when using more than four External Door Actuators
ChickenMaster PRO Controller	Fully programmable ChickenMaster PRO™ Controller
ChickenMaster PRO Firmware	FarmTronics Version 02.03A
Geographic Location Method	Via Latitude & Longitude User Input (Proprietary Software)
Memory Backup	Non Volatile Flash Memory
Clock and Date Backup	96 Hour Built in Super Capacitor
Courtesy Light Timer	Programmable Time Delay, Default setting is 30 minutes
Courtesy Light Output	Positive Supply 12 Volt DC Relay Output

Courtesy Light Push Button	IP67 Rated Momentary Push Button mounted on the right side of the Automation Switchboard
Courtesy Light Remote Push Button Input Compatible (YES)	Option for an additional Remote Push Button allowing the Courtesy Lights to be switched ON from outside the Caravan or Shed
Communication Port for use with the XP Range of Expansion Modules (YES)	Compatible with the XP Range of Expansion Modules. Temperature & Misting Module, Feed Auger Module, External Door High Current Module, Nest Box Leveller etc
Nest Box Gates Voltage Failsafe Feature	Failsafe for the Nest Box Gates if the battery voltage is failing or low (Default Value = 11.0 Volts) Forces Nest Box Gates OPEN
Event History	Up to 1000 past Events can be viewed, great for fault finding
Status ITEM Screens (17 Off)	Multiple Status Items can be viewed without going into menus
Alarm STROBE Light Compatible (YES)	Configurable to work with a FarmTronics FT-SL Strobe Light providing an external visual indication for a variety of faults
Warranty	12 Months from date of purchase
Australian Made	Designed & Manufactured in Melbourne, AUSTRALIA.
Support Service	Phone Support 7 Days a week from 9am to 3pm

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