



GENERAL INFORMATION

Safety, performance and flexibility are optimised in our new Wincon 6 axis controller.

Each Wincon 6 controls is capable to control any type of drive, providing an accurate close-loop variable speed supervision of winches and lifts ranging from kilograms to tonnes of lifting capacity.

APPLICATIONS

- Theatre fly bars
- Stage Lifts
- Sound doors
- Point Hoists

FEATURES

Wincon Command Line Interface (CLI) over Ethernet and Serial

LED status indicators for the following parameters :

- User-settable configuration
- General Wincon and Axis information
- Timing
- Safety
- Control, including control loop

Single Processor Configuration

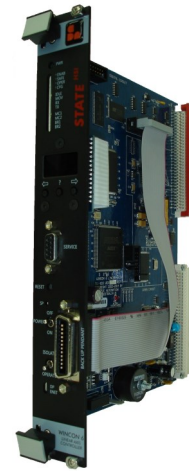
- The main processor delivers at least a 10-fold increase in performance versus the Wincon III.
- Provision of adequate PROM and RAM space for expansion of functionality.
- Improved support for firmware download.

Front-panel 'Isolate/Operate' switch

- This switch provides local isolation to individual Wincons.

Networks and Serial Ports

- Ethernet port is 10/100-Base-T.
- Optionally, addition of Profibus-DP port to facilitate interfacing Wincon with PLC system and simplify under stage machinery control architecture.
- Provision of two RS-485 ports, configurable for 1-pair or 2-pair multi-drop duplex operation.
- The module address is 'hard-coded' into the back plane slots, when used in a Wincon 6 sub-rack.

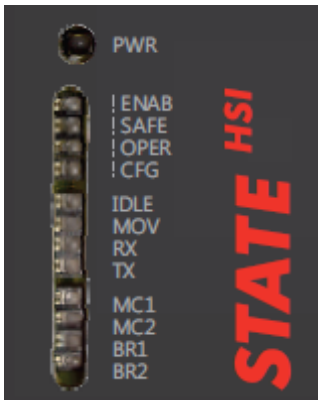


Technical Specifications

Mechanical	
Physical Dimension (mm)	
Board	H: 233 x D:160
Front Panel	H: 260 x W: 40
Weight	350 g
Communication	
Types	Ethernet LAN Profibus Serial Ports
Summary of axis controller functions	
Motion control	
Weighing measurements: TORQUE & Load Cell	
Emergency stop	
Safety Inputs	
Tuning and adjustment of machine	
Support for Absolute and Incremental Encoders	

Hardware Simplification

- The relay logic is replaced with solid-state logic as far as practicable, consistent with relevant safety standards guidelines.
- No hardware configuration jumpers
- Extended encoder support
- Specialised incremental encoder support logic.
- Accepts direct connection of absolute encoder.



LED status indicators on the Wincon 6 front panel

- PWR: - **green** while DC Power is ON
- **red** if DC Power is OFF
- **amber** if DC rail out of tolerance
- ENAB: **red** while either Enable 1 or 2 is negated
- SAFE: **red** while either FWD.SAFE or REV.SAFE
- OPR: **red** while either OPER1+ or OPER2+
- CFG: **red** while module "unconfigured"
- IDLE: **Green** while Wincon is ready
- MOV: **Yellow** while Wincon is in any 'moving' state
- RX: **Green** when a valid packet addressed to the module via ethernet
- TX: **Yellow** when a packet is transmitted by the module via ethernet
- MC1 & MC2: **Green** when Main Contactor is active
- BR1 & BR2: "Brake Fail" indication



- Numeric LCD display and navigation buttons**
- 3 navigation buttons (<=, =, =>, and ?)
 - Accessibility of a variety of Wincon 6 axis and status information
 - The arrow buttons are used to scroll through e-codes and clear them
 - The middle button [?] is used to scroll through axis and status information



LOGO - Dome Label S/N # 090-000-0078
(State Automation to install)

PRESENTATION

Back Up Pendant

ORDERING INFORMATION

Description	Product number
WINCON 6 Linear Axis Controller	811-156-00