

**ATS Automatic Power Transfer Switching Packages – Sales Information.**

*Data Centres & IT – “Tier 2”.  
Mission Critical Services.  
High Rise Buildings.  
Fire Fighting Plant.  
Fume and Smoke Extraction.*

*Hospitals and Medical Facilities,  
Laboratories and Research,  
Critical Process.  
Utility Outstations.*



**Description.**

ATS switches are most often applied at mission critical or life safety loads to manage automatic transfer between normal and standby electrical supplies, including mains failure detection and requesting of standby generation.

The **AMCO** and **GMCO** controllers are from the **Weirgrove** family of “off the peg” standard switchgear automation solutions which has been developed with knowledge from over twenty years experience in this field.

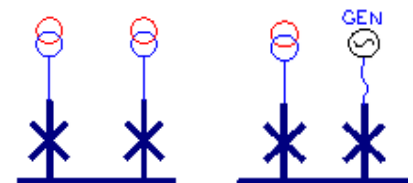
**The case for ATS Switches with Weirgrove GMCO controllers...**

The AMCO and GMCO models are Weirgrove’s compact and economical entry level controllers designed for integration into switchboards or as stand-alone control panels. They are based on rugged industrial automation components from Siemens and are programmed to control state stable power switching devices that may be ACBs, MCCBs, Motorised Switches or Latching Contactors. The controllers are out of the same stable as Weirgrove’s larger APMS and ENMS models and are programmed to be very stable with comprehensive diagnostics, fault recovery routines and alarm and event logging which puts them in a different league to hardwired systems or relay replacement modules.

**Features.**

Weirgrove controllers include many standard features designed to enhance reliability and reduce risk by making the systems easier to operate.

- Reliable, maintenance free automation using compact PLCs and operator displays with no moving parts or batteries.
- Alarms and events displayed at local HMIs with timestamps for accurate diagnostics.



*Weirgrove Power Management Systems*

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*Weirgrove Power Management Systems is an Underwoods Group Company.*

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- Simple and reliable hardwired interlocking systems to prevent unsafe switching, in auto or manual.
- Totally hardwired manual override control with interlocking.
- Hardwired test facilities for offload and onload testing.
- Reliable “black start” capability.
- Pulse on – pulse off state stable control and “bumpless transfer” between operating modes to reduce unwanted switching.
- Rapid synchronising to existing power conditions without unwanted switching.
- Multiple volt sensors checking options, programmable stability timers and ride-through of “brown-out” conditions for extra stability.

***Options.***

ATS switches have many options to make them suitable for a variety of applications, typically:-

- Withdrawable breaker configurations with IP2x internal shrouding allowing access to maintain, replace or test one switching device while the other continues to support the load.
- Optional integrated bypass switches around motorised switches and contactors to allow online access.
- Overcurrent and short circuit protection integrated into breakers.
- Remote offloading feature for power modulation in centralised generator schemes.
- Enhanced hardwired mimic, with animated tri-colour LEDs.
- Peer to peer communications links to other Weirgrove controllers in site-wide installations.
- Optional gateway modules for GSM text messaging, Modbus or TCP/IP communications interface to BMS or SCADA.
- Automatic Neutral-Earthing contactors for 4 pole devices switching downstream solid state UPS systems.
- Custom cable access and connection facilities to suit contractor's installation requirements.
- Available from 40A – 4,000A, optimised packages using standard breaker ratings.

***Internal view of Weirgrove ATS switch controls showing manual override panel.***



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