



## A Division of MW Engineers

### MW Rail Equipment Catalogue

#### Level Crossing Equipment – M1

A high level of manufacturing finish, engraving on the stainless-steel double door protection, ensure the whole suite of level crossing boxes are the best option available for challenging track side environments. Full spec sheets are available.

- **M10001 – Axle Counter Rest Box**

The Axle Counter Reset Box, designed and built by MW Engineering for level crossing applications, is the only option type approved by any network - ARTC NESAS-5054. The locking design is MW Engineers own proprietary concept and allows for the securing of the authorised keys so that it remains captive whilst the Axle Counter Reset Box is open. Housed in a superior quality, engraved, stainless steel double door enclosure. Full spec sheet available.

- **M10002 – Test Switch Box**

The Test Switch Box enables the highway signals, the half-boom barriers, the warning bells and warning lights (each where fitted) to operate directly from the standby power supply, with the main supply switched off. Full spec sheet available.

- **M10003 – Manual Operation Box**

The Manual Operation Switch is another critical component of the level crossing boxes range. It incorporates a rotary two position switch, Auto and Manual. When set to Manual it activates all warning equipment.

- **M10004 – Emergency Switch Box 5 Lock Arrangement**

The Emergency Switch box provides key locked switches, used to deactivate some or all, of the level crossing warning equipment. Includes 2 sets of keys, chains and tags.

- **M10005 - Emergency Switch Box 3 Lock Arrangement**

The Emergency Switch box provides key locked switches, used to deactivate some or all, of the level crossing warning equipment. Includes 2 sets of keys, chains and tags.

- **M10006 – Shunters Push Button**

Located on each side of the level crossing. There are two push buttons START and CANCEL. To activate the level crossing warning equipment the START button is pressed, the equipment is automatically deactivated when the rail traffic clears the level crossing. The CANCEL button is used to deactivate the level crossing equipment if the intended movement is not made.

- **M100013 – MLI Push Button**

- **M10007 – Releasing Switch Fortress**

An electric lock located adjacent to a ground frame which when energised enables a switch to be turned to release a key to unlock the ground frame. The releasing switch is interlocked with the signalling. Includes keys and slide bolt.

- **M10008 – Duplex Lock**

A lock operated by an Annett key to release another Annett key which is then used to unlock signalling equipment. One key is always held captive in the Duplex lock when the other is out.

- **M10009 – Emergency Switch Machine Lock [ESML]**

The box enables interlocking with protecting signals and the controlling mechanisms of power operated points so that the points can be manually operated when required in an emergency.

- **M10010 – EOL Box**

EOL boxes house a key lock for the machine at each end of the points. The keys are used to unlock the hand operating lever mounted on the side of the point machine.

- **M10011 – Point Clips Box**

Stainless Steel enclosure with internal hardware for safely housing point clips.

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- **M10012 – Emergency Switch Ped Swing Gate – Pedestrian Emergency Switch Box**

This Emergency Switch box provides key locked switches and is used specifically for pedestrian crossings. Includes 2 sets of keys, chains and tags.

### Control and Switching Equipment - M2

#### **Auto Transfer Switches [ATS]**

- M20030 – 100A
- M20031 – 150A
- M20032 – 200A

#### **Auto Bypass Switch ARTC / CRN specification**

- M20040 – UPS Auto Bypass Switch

#### **Rotary Switches**

- M20050 - Points Switch
- M20051 – Microlok Isolation Switch

#### **Custom Switchboards and Distribution boards**

- M20060 – M20100

### Solar – M4

The Sentinel Solar Power System is suitable for level crossings and other critical applications. It is pending type approval and fully compliant with ARTC ESD-09-02.

- POA - Sentinel Complete Solar Power System. Modular, scalable, ruggedised designed for trackside conditions.

### CSEE / Jeumont Accessories – M5

- M50001 - Mounting Channel
- M50002 – Label Mounting Channel
- M500020 – Power Supply -ACTOM
- M500021 – Transmitter -ACTOM
- M500022 – Receiver – ACTOM
- M500023 – Track Relays - ACTOM
- M50003 – U Mounting Bracket
- M50004 – Adapter Bracket
- M50005 – Obturation Fittings
- M50006 – Coding Plugs
- M50007 - PFC-12 Plugboard
- M500080 -Jeumont Schneider HV Track Side Box – Single Channel – transmitter [Tx]
- M500081 -Jeumont Schneider HV Track Side Box – Single Channel – receiver [Rx]
- M500082 -Jeumont Schneider HV Track Side Box – Double Channel – transmitter [Tx - Tx]
- M500083 -Jeumont Schneider HV Track Side Box – Double Channel – transmitter, receiver [Tx - Rx]
- M500084 -Jeumont Schneider HV Track Side Box – Double Channel – receiver [Rx - Tx]
- M500085 - Jeumont Schneider HV Track Side Enclosure

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#### Track and Test Equipment – M6

- M60001 - Test Strap Kit
- M600011 - Test Strap Extension Kit
- M600012 - Daisy Chain
- M600013 - Extractor Connector 'Q' Style Relays
- M60002 - Track Test Shunt Box
- M60003 - 20K Shunt
- M60004 - 100K Shunt
- M60005 – Battery Test Resistor
- M60006 - Lamp Proving Module
- M60007 – Battery Voltage Monitor
- M60008 – Custom Test Box

#### S&C Test and Maintainer Equipment – M7

- **344 1009AU - Short Finder**

A versatile meter, which can reduce trouble-shooting time substantially. The Short Finder is an excellent tool for testing track insulation. It can also be used to locate high resistance track wire and signal bond connections; areas of bad ballast, shorted lightning arrestors, and to test signal testing shunts for proper resistance. A Spectrum Analyzer is also included that will identify frequencies and their voltage levels.

- **355 121LEAU Signalman's Meter**

Another extremely versatile meter with multiple uses. All scales protected against electrical damage. Ohms by thermal reset. Voltage by impedance. Amperes scales by two front-accessed fuses, 10 & 30 Amp. Counter flasher relay rates, DC and AC. Simplified auto-ranging. Volts, Ohms and Amps displays. AC (true RMS) and DC voltages displayed simultaneously. Current clamps available.

- **322 Shunt Coupler Tester**

This highly portable device permits the maintainer to bridge or terminate signals into the shunts or couplers under test. "Scan Shunt" Function automatically sweeps full range (10Hz to 5120Hz) for tuning points. Graphic display shows frequency curve and tuning points and the effective attenuation level of the Shunt or pass-through capacity of the Coupler under test. The supplied Tuned Shunt Simulator allows the user to confirm that test results are accurate.

- **323 Shunt Coupler and Dummy Load Tester**

This highly portable device permits the maintainer to bridge or terminate signals into the shunts, couplers and dummy loads under test. It can be moved to the area of the track where the devices are in service, maximizing effectiveness, minimizing time required to perform the tests and ensuring that unnecessary movement of the device under test does not change the condition causing the problem. "Scan Shunt" Function automatically sweeps full range (10Hz to 5120Hz) for tuning points of a narrowband shunt. "B Scan" determines centre frequency and termination level of the shunt under test. Graphic display shows frequency curve and tuning points allowing the user to check loading effect of shunt under test on overlapped frequencies. Leakage Test determines the resistance of the shunt to DC leakage. Leakage status for a shunt is reported when it reaches minimum resistance acceptable. Two shunt leakage capacities can be tested selectively: narrowband and wideband. Dummy Load Test quickly reports feet of track represented by a dummy load. No other equipment in a normal maintainer's tool kit can determine the foot value of an unmarked or surge damaged dummy load. This information is now readily available with the 323. Transmitter Frequency Test feature of the 323 allows the maintainer to know the frequency that is being fed to the termination shunts. The 323 Tester enables the maintainer to know if the relationship between the transmitter and the shunts is correct or not. Separate inputs for Dummy Load & Tuning and Leakage & Frequency Meter Tests reduce potential for resistance in switch contacts to adversely affect test results.

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**Miscellaneous – M9**

- M90001 – Microlok Plug Coupler Mounting
- M90002 – Microlok Shield
- M90003 – Microlok Mounting Brackets
- M90004 - Taper Bolts
- M90005 - Channel Pins
- M90006 - Channel Pin Starting Punch
- M90007 - Channel Pin Finishing Punch
- M90008 - Removal Punch
- M90009 - Axle Counter Solenoid Parts
- M90010 – Mounting Post for JS HV Track Side Enclosure
- M90011 – Mounting Post for Point Clips Box
- M90012 – M6 Stainless Steel Star Washer for Taper Bolts
- M90013 – M6 Stainless Steel Nyloc Nuts for Taper Bolts
- M90014 – Switchboard parts – enclosure, pole filler
- M90015 – Releasing Switch parts – Frame Bolt & Bracket assembly

**Services – 10**

- Relay Testing and Certification

Please enquire if you do not see what you need.

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