

FINE CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product range representing leading technologies & brands:

Flow: Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

Temperature: Temperature Probes & Thermowells, Temperature transmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

Precision Pneumatics: Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

Services: Repair, Calibration, Panel Build, System Design & Commissioning

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Fine Controls (UK) LTD, Bassendale Road, Croft Business Park,
Bromborough, Wirral, CH62 3QL UK
Tel: 0151 343 9966
Email: sales@finecontrols.com

ELECTROMEK MKII QUICK RELEASE MECHANISM

This is designed for use in conjunction with the free fall fire valve and other accessory equipment as an emergency button to sound alarms and render the equipment safe by a switching action. It is operated either as a mechanical switch actuated by the release of a fusible link network under tension, or by hand pressure, causing a two pole change-over switch operation, as well as mechanically releasing the fire valve by means of the fusible link arrangement. It can also be used in conjunction with the Manual Quick Release Mechanism, Solenoid Quick Release Mechanism and Sumpguard Equipment.

To operate, strike the red push button. The plunger situated in the top of the equipment will be ejected and the fire valve cable released, allowing the fire valve attached to the wire to fall, shutting off the fuel supply. At the same time this action will shut off the electrical supply to the burner, or other load, which is automatically disconnected and a further circuit made to indicate an alarm, either visually, audibly, or both, according to the design requirement. The mechanism will also actuate by means of the parting of the fusible links which allow the plunger normally under tension to be pulled down into the Electromek and thus repeat the same action.

To reset the mechanism, depress the red button and place the plunger into the hole in the top of the unit, set the centre shaft carrying the pulley to its fully extended position against the spring by operating the wire; then release the push button and the plunger will remain in this operating position.



ELECTROMEK MKII QUICK RELEASE MECHANISM

Electrical and Technical Data

Connection should be made using (1mm²) cable which should be connected to the terminal block in the connection housing which is located adjacent to the emergency button and near to the cable entries. This terminal block is internally wired to two automatic reset microswitches. These two microswitches are fixed in a separate compartment under the red push button and should not be disturbed. Within the microswitch compartment is also found the releasing lever and bridge which retains the spring loaded plunger. The releasing bracket is fixed to the red push button through the cover plate.

The spring loaded plunger is fitted with a running sleeve which, when placed in the hole in the top of the box and depressed, is located in the bridge piece attached to the red button. This action also sets or re-sets the microswitches and, if the plunger is not in position, the alarm circuit contacts will continue to be made i.e. changed over to the emergency position.

Rating: 230V at 5 amps maximum

Plunger Loading: The load to operate against the plunger spring should not be less than 5.5lbs (2.4kg)

