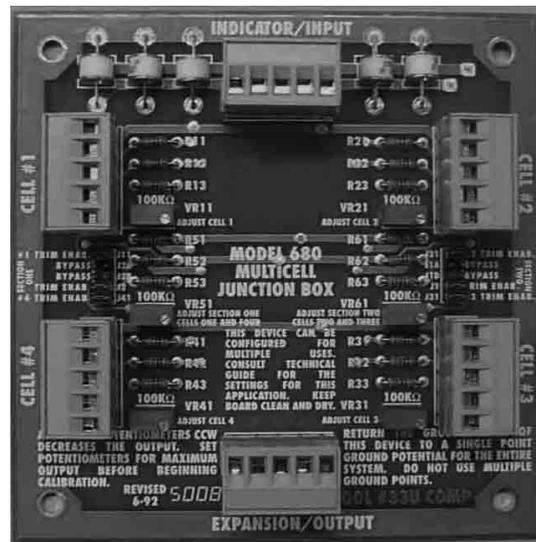


RSCO 11700 SERIES

LOAD CELL SUMMING CARD

TECHNICAL GUIDE



PART NUMBERS:

11701	SCREW TERM. BOARD ONLY
11711	SCREW TERM. STAINLESS STEEL
11711M	SCREW TERM. STAINLESS STEEL MEYERS HUBS
11731	SCREW TERM. MILD STEEL
11731M	SCREW TERM. MILD STEEL MEYERS HUBS
11751	SCREW TERM. FRP
11751M	SCREW TERM. FRP MEYERS HUBS
11704	PLUGGABLE CONN. BOARD ONLY
11714	PLUGGABLE CONN. STAINLESS STEEL
11714M	PLUGGABLE CONN. STAINLESS MEYERS HUBS
11734	PLUGGABLE CONN. MILD STEEL
11734M	PLUGGABLE CONN. MILD STEEL MEYERS HUBS
11754	PLUGGABLE CONN. FRP
11754M	PLUGGABLE CONN. FRP MEYERS HUBS

JUMPER SELECTABLE TRIMMING OPTIONS

On either side of the 11700 junction card, you will find a bank of shorting jumpers. These are used to set this card up for the many signal trimming options available. Please refer to the attached schematics to determine which options(s) suit your application.

LOAD CELL SIGNAL TRIMMING

Turn all of the trim potentiometers full clockwise for maximum output. Place a test load on each cell and record the values. Adjust the cell trim potentiometers (VR11,VR21,VR31,VR41) down to the lowest cell reading. Repeat this procedure for the sections as well (VR51,VR61) Once all of the cells and sections have identical readings, proceed with the indicator manufacturer's calibration procedure.

BOARD LAYOUT

The 11700 is designed to be expandable for use in truck and/or rail scales, as well as 4-cell and tank scale operations. Each cell has built in 1k Ω signal isolation and signal trimming (this can be disabled by removing the proper jumper). Each section, also, has 1k Ω signal isolation. Please note that this isolation must be bypassed if the section trim is disabled. The input and output are on opposite ends of the card.

LINE TRANSIENT PROTECTION

The 11700 has "Onboard" Line Transient Protection. Using gas discharge tubes, a voltage of 75VDC or more is shunted to ground, protecting the indicator from damage. In order for the transient protection to function properly, and at full efficiency, this card **MUST BE TIED BACK TO A SINGLE GROUND POINT!** Do not use multiple grounds on any system that the 11700 is used in. Should the system take an electrical spike that causes the gas tubes to fail, unless there is physical damage to the board, usually the board can be repaired.