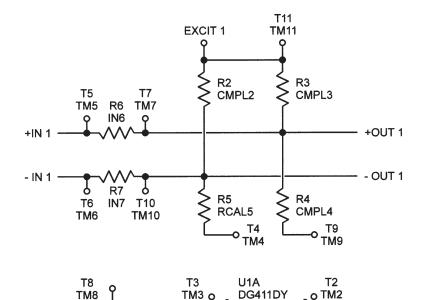
Technical Bulletin

MSC1000-037

Input Configuration Module
Airborne Data Acquisition Products



DESCRIPTION

The MSC1000-037 module was designed to provide the front-end conditioning for the following signal modules.

■ MSC1000-029 Analog Multiplexer Module

■ MSC1000-030 Analog Multiplexer Module

■ MSC1000-034 Signal Conditioning Module

with DSP

■ MSC1000-034-02 Signal Conditioning Module

with DSP

MSC1000-040 Smart Power Bus Monitor

POSSIBLE CONFIGURATIONS

- Half Bridge completion with RCAL
- Quarter Bridge completion with RCAL
- Bias current path to ground
- Differential AC coupled input
- Differential input filters
- Input overvoltage protection
- Differential attenuation
- Isotron piezoelectric accelerometer excitation

The MSC1000-037 is a field configurable module. Components may be mounted on the board by the user to provide for custom circuitry. A cable is included with the module to connect the -037 output signals to another signal conditioning module.



CONFIGURATIONS

```
COMPLETION (ACTIVE R'S BETWEEN EXCIT, -IN, AND GND)
MPL3 AND CMPL4.
                                                                                     GOING RCAL DEFLECTION
GOING DEFLECTION.
R BETWEEN -IN AND GND)
                                                                                                                                                                                                          FOR NEGRTIVE GOING DEFLECTION.
GROUND
RCALS VITH IM OHMS.
                                                                                       POSITIVE GO
NEGRTIVE GO
N (ACTIVE R
AND CMPL4.
                                                                                                             . TM2 TO TMII FOR N
OUGHTER BRIGGE COMPLETION
INSTALL CMPL2, CMPL3, A
JUMPER IN7.
INSTALL RCGES.
JUMPER TMI TO TM9.
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R2 CMPL2

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PPLED SIGNAL INV VITH COUPLING CA D RCALS VITH SHUNT R 3 TO TM9 DIFFERENTIAL

DIFFERENTIAL INSTALL IN INSTALL CM 'n

PROTECTION (INCLUDING POWER DOWN) RS 200K OHMS RESISTORS. INSTALL II DIFFERENTIAL JUMPER INCREASED œ.

RCALS AS SHUNT RESISTORS. TO TM9. IT REGULATOR DIDDE. RESISTOR.

TM1 TD TM9 TD TM10. EXCIT1 THRU EXCIT4 AS +28VX.

TRANSDUCERS) ENTER MODULE THROUGH JZ, MDM37P. SIGNAL CONDITIONER) ENTER MODULE THROUGH J3, MDM37S.

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ER MODULE THRU J3. ERFRCE XITH A SIGNAL CONDITOINER. , OR MSC1808-848.

FIELD ACCESS TO COMPONENTS.

communications

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