



ROBOLIN OUTSTATION ANALOG I/O MODULE

INSTRUMENT AND RADIO CORPORATION

General Description of the Robolin Outstation

The Robolin outstation (ROB-LIN) is an analog input or output module designed for radio based monitoring and control..

The Robolin module must use a Robotic Outstation (ROB-OS) or any other standard radio for its communications. Wired networks are also possible.

When programmed as an analog input module, it accepts either a 4 to 20mA or a 0 to 5V signal. It transmits this signal to a controller and/or another Robolin module.

When programmed as an analog output module, it provides either a 4 to 20mA or 0 to 5V output. The analog output value is driven by a controller or another Robolin analog input module.

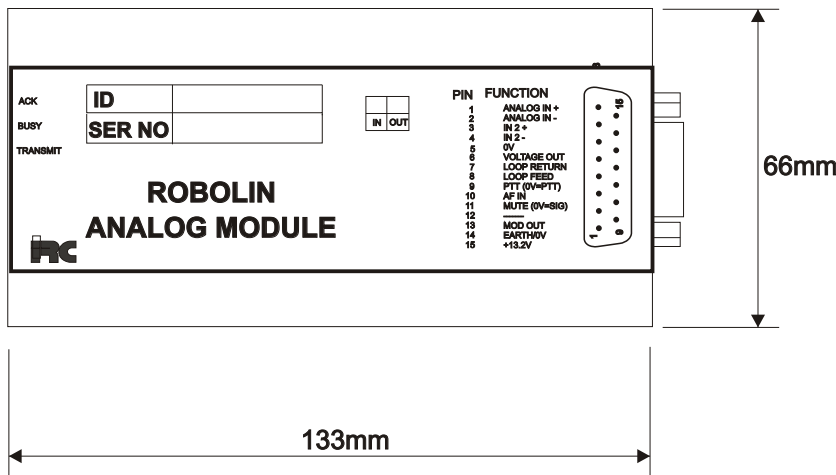
It is possible to reproduce an analog value at one point to an analog value at another point (cloning).

Other modules in the Robotic family are :

1. The Robotic Outstation (ROB-OS) radio transceiver with eight digital inputs/outputs.
2. Relay Driver (RSA-RELAY)
3. Terminal Block Connector (ROB-TBLOCK)
4. Digital Expansion Module (ROB-DIG/IO) with eight digital inputs/outputs.
5. Speech module (RSA-AUDIO) providing speech over the radio network
6. The stand-alone desktop controller (ROB-CON).
7. The PC based controller (ROB-PCSW).
8. The parrot repeater which increases the radio coverage (ROB-PAR).

SPECIFICATIONS

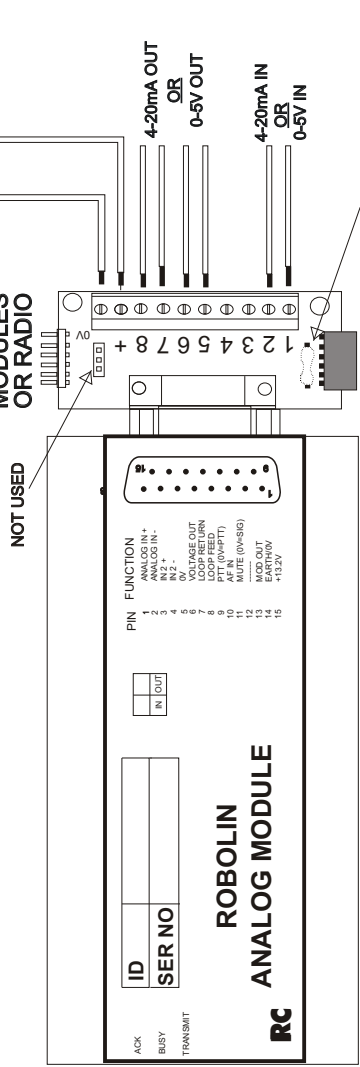
ANALOG INPUT/OUTPUT	
Accuracy	< 1 %
Resolution	8 bits
Analog input range	4 to 20mA or 0 to 5V (jumper selectable)
Analog output range	4 to 20mA or 0 to 5V (jumper selectable)
POWER REQUIREMENTS	
Nominal 13,2V DC (12 to 14.5V) at 20mA (add the requirements for the sensor in the analog input mode and for the load in the analog output mode).	



PROGRAMMING THE ROBOLIN OUTSTATION

1. OPEN THE ROBOLIN CASING.
2. INSERT THE PROGRAMMING LEAD ONTO THE 3 PIN PLUG MARKED 'PROG'.
3. APPLY POWER - WAIT FOR THE LOW PITCHED SOUND INDICATING PROGRAMMING MODE.
4. INITIATE PROGRAMMING FROM THE COMPUTER.
5. WAIT FOR THE ROBOLIN TO 'BEEP' INDICATING THAT PROGRAMMING IS COMPLETE.
6. REMOVE THE PROGRAMMING LEAD.
7. REMOVE THE POWER.

ROBOLIN INSTALLATION

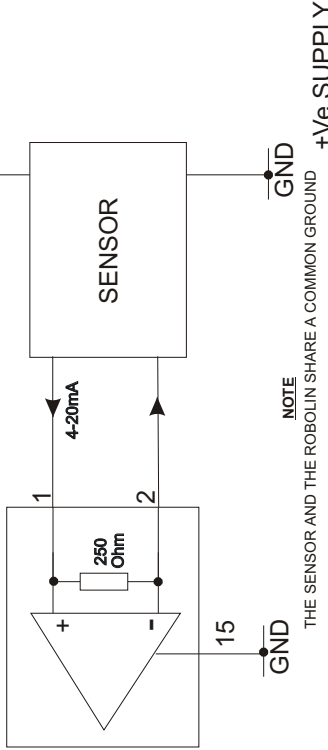


ROBOLIN MODULE (ROB-LIN) ANALOG INPUT OR OUTPUT MODULE

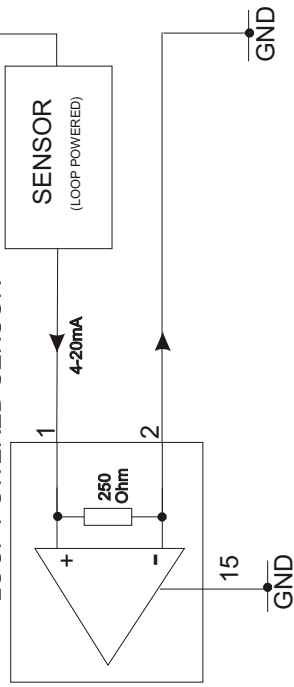
CURRENT INPUT (4-20mA)

LINK 3 IS INSERTED IN THE ROBOLIN UNIT

CONNECTION TO A SENSOR WITH ITS OWN POWER SUPPLY

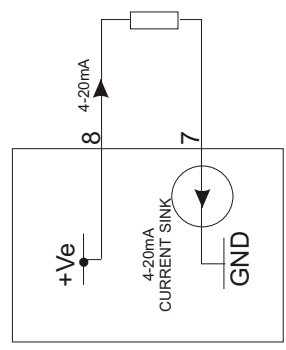


CONNECTION TO A LOOP POWERED SENSOR



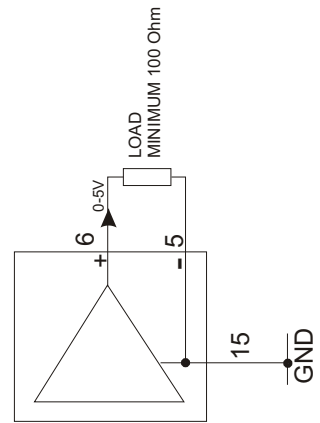
CURRENT OUTPUT (4-20mA)

LINK 2 IS INSERTED, LINK 1 IS REMOVED FROM THE ROBOLIN UNIT



VOLTAGE OUTPUT (0-5V)

LINK 1 IS INSERTED, LINK 2 IS REMOVED FROM THE ROBOLIN UNIT



VOLTAGE INPUT (0-5V)

LINK 3 IS REMOVED FROM THE ROBOLIN UNIT

