882D Belt Scale Integrator and 882IS/882IS Plus Indicators

Single Analog Output Option Card

The Single Analog Output Card (PN 164704) provides either a 0-10 VDC or 0-20 mA (4-20 mA) output, proportional to the selected mode source (can also be controlled via the iRite user program).

See the 882D technical manual (PN 184260) or the 882IS I/O Module installation manual (PN 194139) for complete instruction of the corresponding product on opening the enclosure and the necessary connection ports.

Manuals and additional resources are available from the Rice Lake Weighing Systems website at www.ricelake.com
Warranty information can be found on the website at www.ricelake.com/warranties

WARNING ***Always disconnect power before opening an enclosure. Option card is not hot swappable.***

CAUTION ***A grounding wrist strap must be worn to protect components from electrostatic discharge (ESD) when working inside an enclosure.***

Kit (PN 190528) Parts

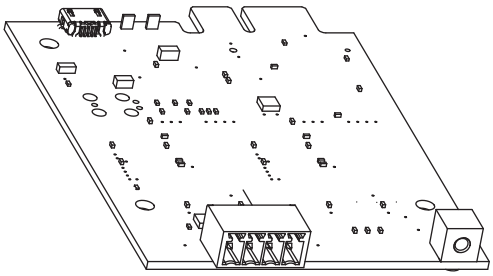

Figure 1. Analog Output Option Card

The included parts kit contains items used for installation of the card. See the 882D technical manual or the 882IS I/O Module installation manual for more information on shield grounding.

Part No.	Description	Qty
164704	Board Assembly, Single Com	1
190927	Parts Kit (*includes the parts listed below)	1
*15130	Washer, Lock NO 6 Type A (used for stud grounding)	1
*15631	Cable Tie, 3 inch Nylon (secures cable in panel mount installation)	4
*153878	Connector, 4 Pos Screw Terminal (interface connector)	1
*180826	Nut, M4 x 0.7 Hex (used for stud grounding)	1
*194487	Screw, SEMS Phillips M3 x 6 (secures card to controller assembly)	3
*53075	Clamp, Ground Cable Shield (used for stud grounding)	1

Table 1. Analog Output Option Card Kit Parts List

Installation Procedure

Note

882D *– the analog output option card works in option card slot 1 (J8 connector) and slot 2 (J9 connector) of the 882D CPU board (Rice Lake Weighing Systems also offers interface option cards that must be used in slot 1, which would require the analog output option card to be used in slot 2 if used simultaneously)*

882IS *– the analog output option card works in the option card slot (J8 connector) of the 882IS I/O Module board (I/O Module board only has one option card slot)*

1. Disconnect power to the unit.
2. Remove the backplate from the 882D enclosure or the 882IS I/O Module.
3. Connect option card to J8 or J9 connector on the 882D CPU board or to J8 connector on the 882IS I/O Module board.
4. Secure the option card board with the three provided M3 screws from the option kit.
5. Route the cable and make the connection to the option card.

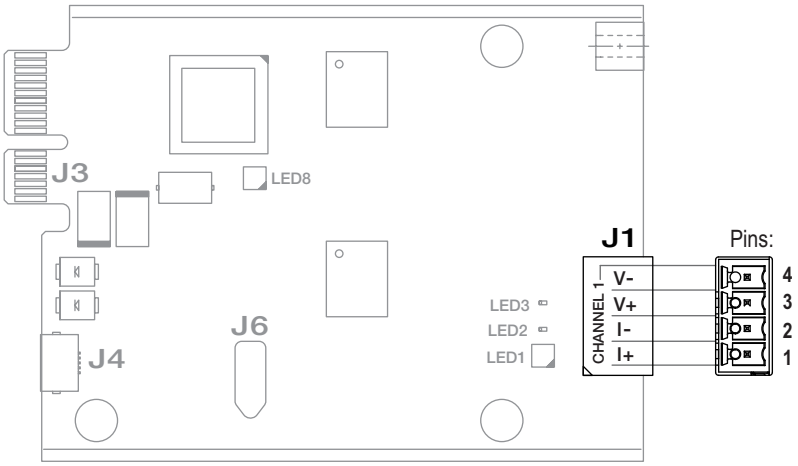

Figure 2. Analog Output Option Card

Connector	Pin	Channel 1
J1	1	I+
	2	I-
	3	V+
	4	V-

Table 2. Pin Assignments

Note

For the 882D, the option card slot selected for the installation of the analog output card determines the analog output number available: Slot 1 = Output 1; Slot 2 = Output 3

6. Ensure no excess cable is left inside the enclosure and use the provided cable ties to secure loose cables inside the enclosure as needed.
7. Ground the shield cable using the grounding stud on the enclosure with the included cable clamp.
8. Tighten the cord grip and cord grip nut.
9. Reinstall the backplate to the 882D enclosure or the 882IS I/O Module.
10. Reconnect power to the unit.

Note

The analog output must be calibrated after the indicator has been configured and calibrated.

The 882D and 882IS automatically recognizes all installed option cards when the unit is powered on. No hardware-specific configuration is required to identify the newly-installed card to the system.

LED Status Indicators

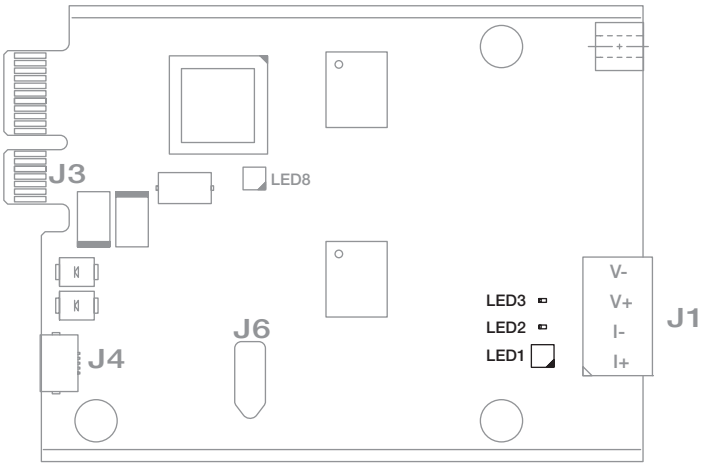

Figure 3. Analog Output Option Card LEDs

LED	Status
1	LED Card Status
2	Green – LED Channel 1 is good
3	Red – LED Channel 1 is faulty

Table 3. LED Status Light Descriptions

Specifications

Resolution	16-bit, monotonicity over temperature
Linearity	±0.03% of full scale input
Current Output	0–20 mA or 4–20 mA (20% offset)
Maximum Load Resistance	840 Ω
Power Consumption	3.9 W (max. load @ 20 mA)
Voltage Output	0–10 VDC
Minimum Load Resistance	1.1 KΩ
Power Consumption	3.9 W (max. load @ 10 VDC)
Input Protection	Short circuit protection, 300 W transient voltage suppression
	Protection for ESD, EFT (electrical fast transients), tertiary lightning, and system-generated transients per IEC 60001-4-2, 60001-4-4, and 60001-4-5; European Standards EN50082 and EN61000-4

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