



ION 8650 Retrofit Solutions

For New or Retrofit Applications

Retrofit Number	Existing Meter being Replaced	SUSI Part Number	ION 8650 in FT-21 Bracket	Original ION 8650 FT-21 Cover	Original Cables
30	ION 8650 3 element meter in FT-21 small case with Ethernet routed through the modem cable	SWIIWS9-QX1-M8650	Yes	Yes	No
31	JEMSTAR II, 3 Element Meter in Small case with RS-232 & RS-485 PCB Connection	SWIITSJ29-JEMS21-M8650	Yes	Yes	No
32	JEMSTAR, 3 Element Meter in Small case with RS-232, RS-485 & Digital Inputs PCB Connection	SWIITSJ9-JEMS24I-M8650	Yes	Yes	No
33	Quantum, 3 Element Meter with Expander Module signals, Ethernet & Modem routed to the 9 & 25 Pin Connectors	SWIIJL9-Q2-M8650	Yes	No	No
34	Quantum, 2 Element Meter with Expander Module signals, Ethernet & Modem routed to the 9 & 25 Pin Connectors	SWIIJL5-Q2-M8650	Yes	No	No
35	Transdata, 2 Element Meter in Small case with Transdata Module (TM5) Ethernet, RS-485 & RS-232	SWIITS5-TM5-M8650	Yes	Yes	No
36	JEM STAR / JEM 10, 2.5 (Form 6) Element Meter in Small case with mini Breakout Panel, Slide-n-Mate connection with AUX, Ethernet & 3 I/O	SWIITSJBP6-JEMSX-M8650	Yes	Yes	No
37	JEM STAR / JEM 10, 2.5 (Form 8) Element Meter in Small case with mini Breakout Panel, Slide-n-Mate connection with AUX, Ethernet & 3 I/O	SWIITSJBP8-JEMSX-M8650	Yes	Yes	No
38	Elite, 3 Element meter in FT-21 Elite case	SWIIWS9-EL-M8650	Yes	Yes	Yes
39	JEMSTAR, 2 Element Meter in Small case with RS-232 & RS-485 PCB Connection	SWIITSJ5-JEMS24-M8650	Yes	Yes	No
40	JEMSTAR II, 3 Element Meter in Small case with Q5 Cable (AUX, IRIQ-B, RJ45, & RS-485	SWIITSJ29-Q5-M8650	Yes	Yes	No



ION 8650 Retrofit Solutions

Cables	Cables/Options
JEM	Internal JEM cable for connecting the ION 8650 to the JEM bracket in the back of the meter
JEMS2	Internal JEMSTAR cable for connecting the ION 8650 to the JEMSTAR edge card PCB with KYZ RS-232
JEMS4	Internal JEMSTAR cable for connecting the ION 8650 to the JEMSTAR edge card PCB with KYZ RS-485
JEMX	Internal JEM10 cable for connecting the ION 8650 to the JEM10 edge card PCB
JEMS24	Internal JEMSTAR cable for connecting the ION 8650 to the JEMSTAR edge card PCB with RS-232 & RS-485
JEMSXP	Internal JEMSTAR cable for connecting the ION 8650 to the JEMSTAR edge card PCB with I/O Expander, Ethernet, Aux power and Modem
JEMSX	Internal JEMSTAR /JEM10 cable for connecting the ION 8650 to the JEMSTAR and JEM10 with mini Breakout Panel, Slide-n-Mate (level 4) connection with AUX, Ethernet & 3 I/O
JEMSSC	Internal JEMSTAR cable for connecting the ION 8650 to the JEMSTAR edge card PCB with AUX power and Ethernet
Q	Internal Quantum cable for connecting the ION 8650 to the Quantum bracket in the back of the meter
Q1	External original cables from Victoria (Schneider # C0H6C7C or C0H6C7B) includes Grey Cable
Q2	Internal Quantum cable for connecting the ION 8650 to the Quantum bracket in the back of the meter with Expander Module signals, Ethernet & Modem routed to the 9 & 25 Pin Connectors
Q4A	Connection panel on back of the meter that adds I/O Expander module for analog outputs, AUX, IRIG-B red & black strip leads, RJ45, Modem conn, 25 pin D-SUB & 15 pin D-SUB
Q5	External Cable made from Q1 cable, including AUX Power, IRIG-B, RJ45, & RS-485/ Also, includes the Insulation Plate (IP) - Tool used for safely removing the case back plate.
QK1	External Q1000 cable made from Q1 cable for connecting from the back of the Q1000 case to customer equipment includes Grey Cable
QX1	Internal cable for router the ION 8650 Ethernet through the modem cable.
TM1	Internal Transdata cable for connecting the ION 8650 to the Transdata edge card Ethernet & 4 KYZ
TM2	Internal Transdata cable for connecting the ION 8650 to the Transdata edge card RS-232 & 4 KYZ
TM3	Internal Transdata cable for connecting the ION 8650 to the Transdata edge card Ethernet & Modem
TM4	Internal Transdata cable for connecting the ION 8650 to the Transdata edge card Ethernet, RS-485 & Modem
TM5	Internal Transdata cable for connecting the ION 8650 to the Transdata edge card Ethernet, RS-485 & RS-232
ETH	Internal ethernet connector for connecting ION 8650 to Ethernet
ETH-AUX	Internet Ethernet and AUX power cable for connection the ION 8650 to the bracket in the back of the meter
S1K	Internal S1K cable for connecting the ION 8650 to the back of the adapter to facilitate the I/O connectors for direct connections
JEMS24I	Internal JEMSTAR cable for connecting the ION 8650 to the JEMSTAR edge card PCB with RS-232, RS-485 & Digital Inputs
BC9E	Breakout Cable for Quantum DB 9 pin connector to Ethernet plug (RJ45) with female coupler (8 pins).
BC25E	Breakout Cable for Quantum DB 25 pin connector to Ethernet plug (RJ45) with female coupler (8 pins).
EL	Custom backplate for installation in an Elite FT-21 Case



ION 8650 Retrofit #1

**GE DS-65, ES, EPM 5100 and kV types of
2½ elements meter in small S1 case.**

(SUSI# SWIIGS6-Q1-M8650)



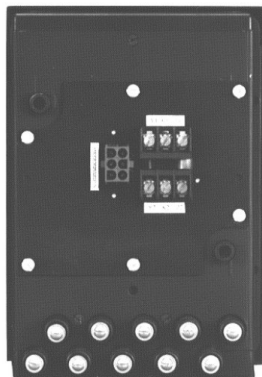
**Front and rear view of
GE DS-65 meter in S1 Case**



**Front and rear view of
ES meter in S1 Case**



**Front and rear view of
EPM 5100 meter in S1 Case**



**Front and rear view of
kV meter in S1 Case**





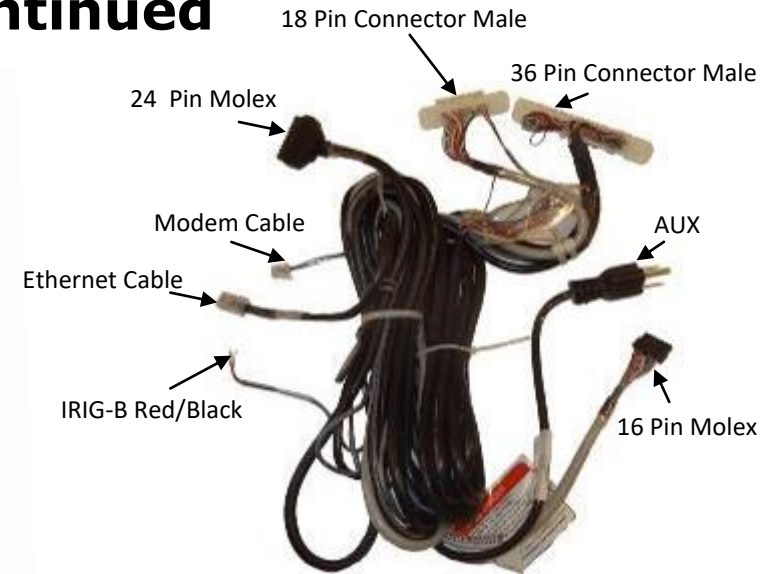
ION 8650 Retrofit #1 continued



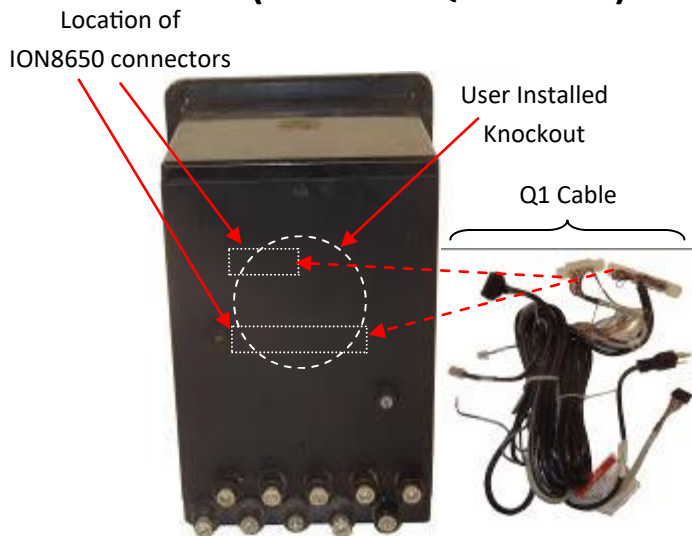
**ION 8650 Retrofit including collar and cover
(SWIIGS6-Q1-M8650)**



**Rear view of
SWIIGS6-Q1-M8650**



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



**Rear View of DS-65 meter in
S1 case with ION 8650 and
Q1 Cable**



**Rear View of ES, EPM 5100
and kV meter in S1 case with
ION 8650 and Q1 Cable**



**Complete ION 8650 Retrofit
in small GE S1 case
(SWIIGS6-Q1-M8650)**



ION 8650 Retrofit #2 **Quantum, 2 Element Meter** **(SUSI # SWIIJL5-Q-M8650)**

Cover—Use SUSI
ION 8650 JL Cover
(SUSI# 310-1014-00)



Quantum Meter in Quantum Case



Inside of Quantum Case

36 pin connector

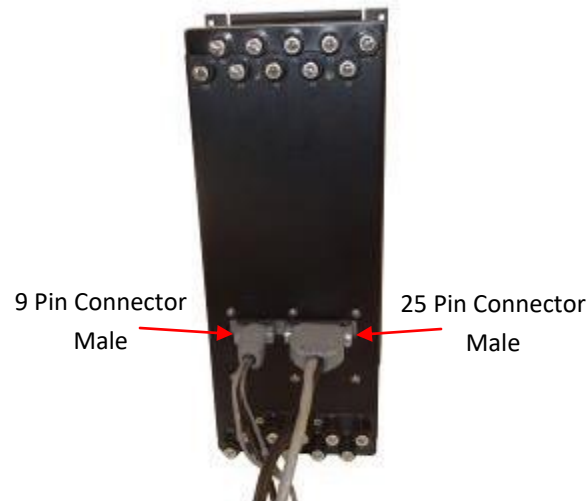
Internal Q

18 pin connector

SWIIJL5-Q-M8650



Rear View of
SWIIJL5-Q-M8650



Rear View of Quantum Case
with Original User Cables



SWIIJL5-Q-M8650
in Quantum Case



ION 8650 Retrofit #3 **Quantum, 3 Element Meter** **(SUSI # SWIIL9-Q-M8650)**



Quantum Meter in Quantum Case



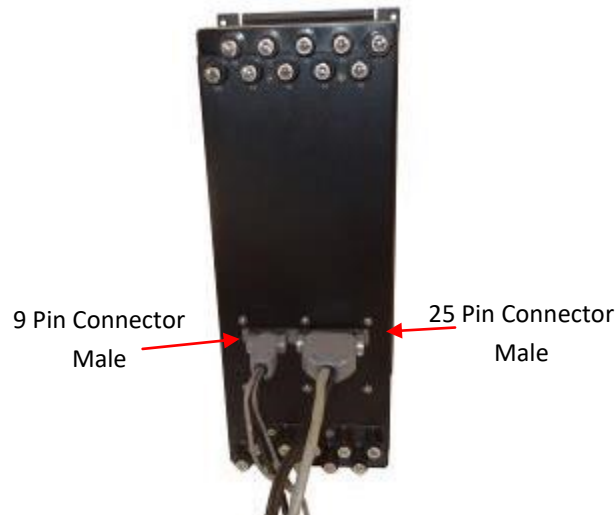
Inside of Quantum Case



SWIIL9-Q-M8650



**Rear View of
SWIIL9-Q-M8650**



**Rear View of Quantum Case
with Original User Cables**



**SWIIL9-Q-M8650
in Quantum Case**

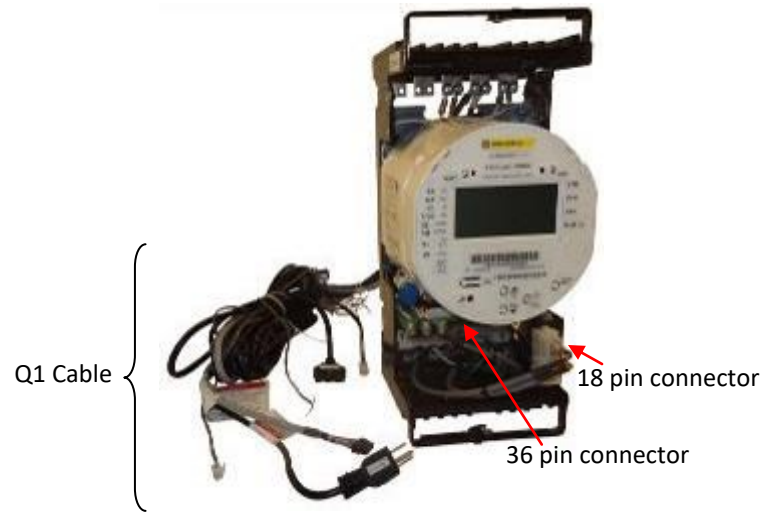


ION 8650 Retrofit #4

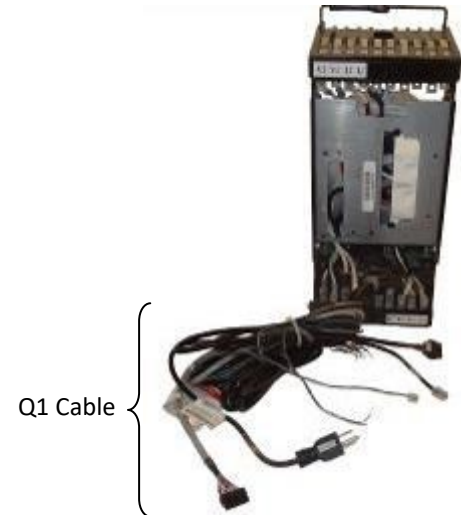
**JEM1, 3 Element Meter in Tall case
(SUSI # SWIIJL9-Q1-M8650)**



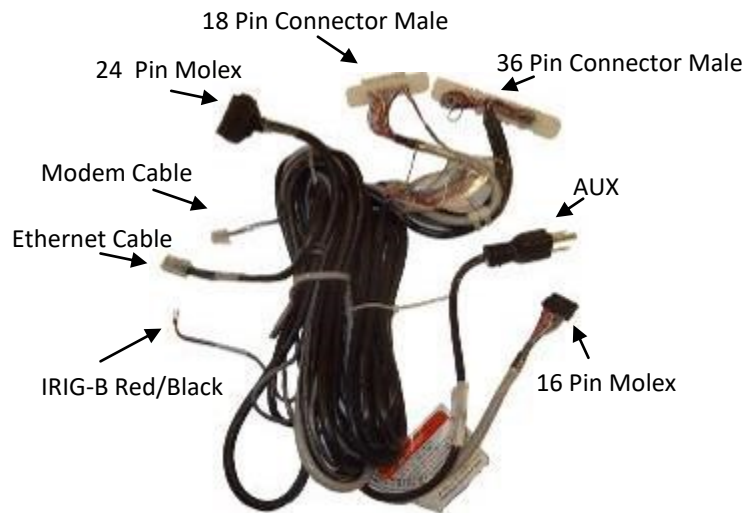
JEM1 Meter in JEM1 Tall Case



SWIIJL9-Q1-M8650



Rear of SWIIJL9-Q1-M8650



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



**Rear View of JEM1 Tall Case with
Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



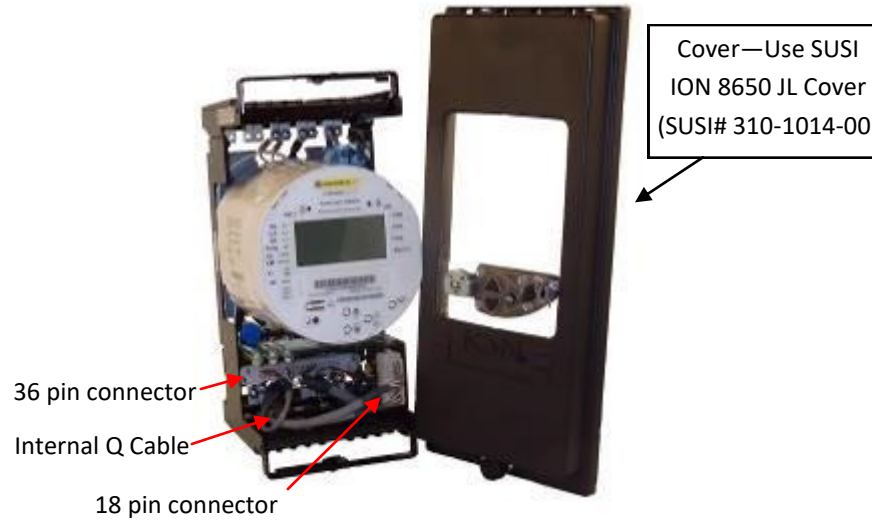
**SWIIJL9-Q1-M8650 in
JEM1 Case**



ION 8650 Retrofit #5 **Q1000, 3 Element Meter** **(SUSI # SWIIL9-QK1-M8650)**



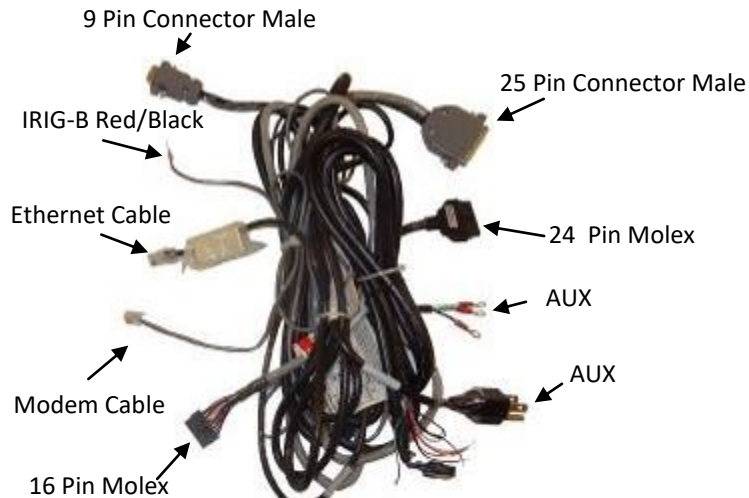
Q1000 Meter in Q1000 Case



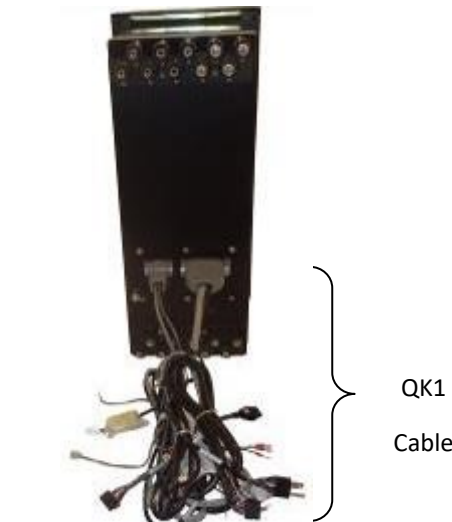
SWIIL9-QK1-M8650



Rear of SWIIL9-QK1-M8650



QK1 Cable



**Back of Q1000 Case
with QK1 Cables**



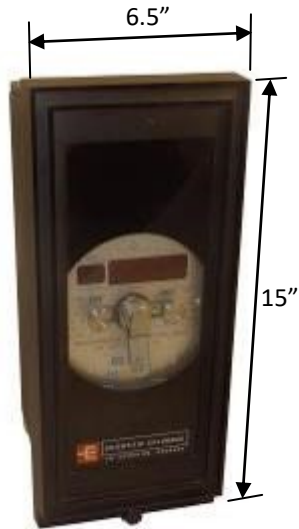
**SWIIL9-QK1-M8650
in Q1000 Case**



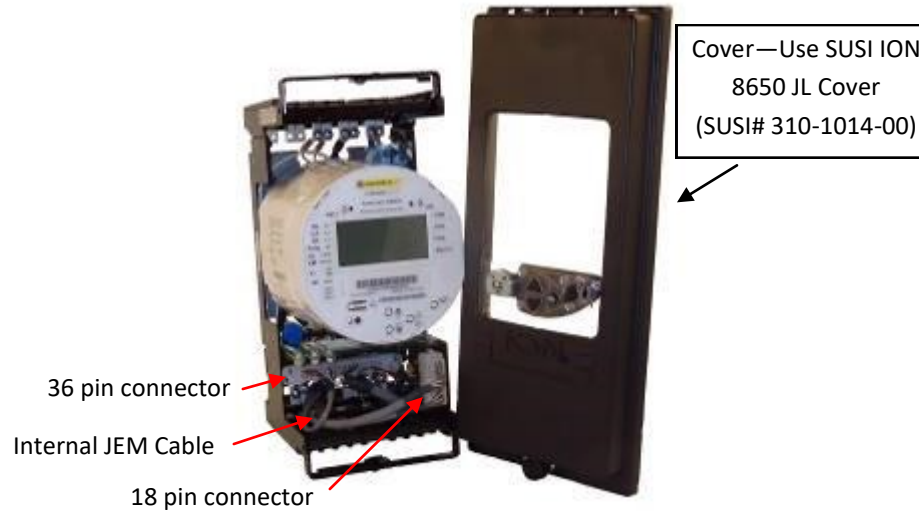
ION 8650 Retrofit #6

JEM2, 3 Element Meter in Tall case

(SUSI # SWIIJL9-JEM-M8650)



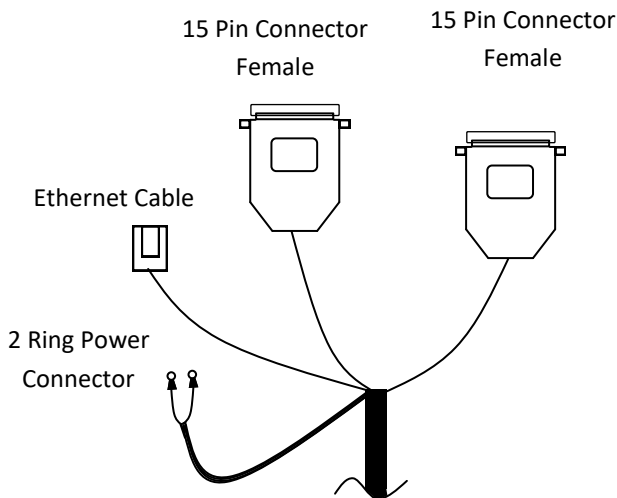
JEM2 meter in JEM2 Case



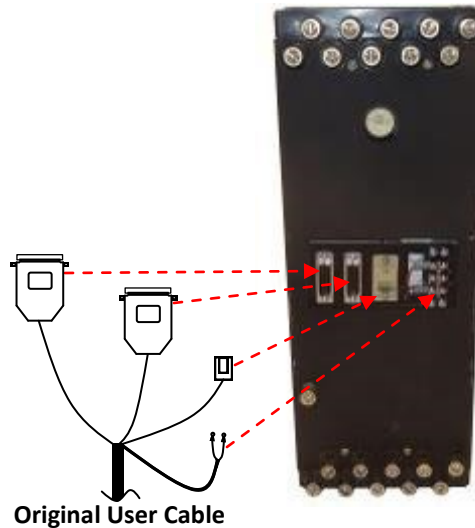
SWIIJL9-JEM-M8650



Rear of SWIIJL9-JEM-M8650



Original User Cable



**Rear view of JEM2 Tall Case
with Original user cables**



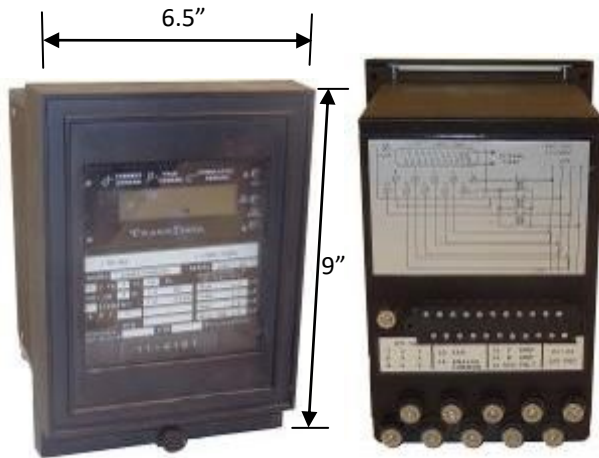
**SWIIJL9-JEM-M8650
in JEM2 Case**

900-2001-00-J



ION 8650 Retrofit #7

**Transdata, 3 element meter in small case
(SUSI # SWIITS9-Q1-M8650)**



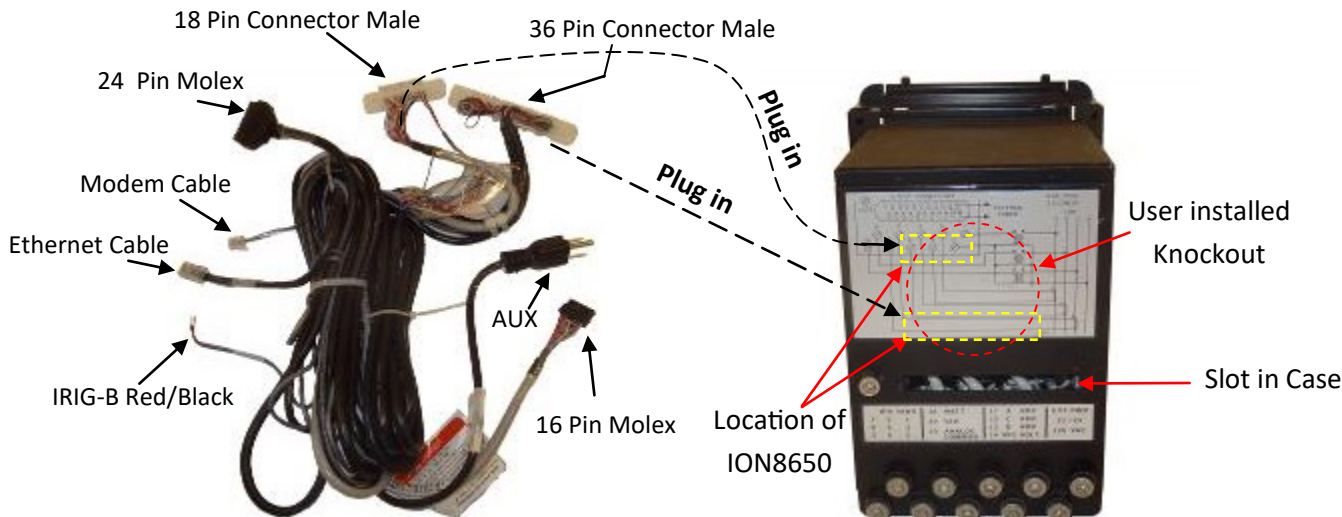
**Front and rear view of
Transdata meter in small case**



**ION 8650 Retrofit including collar and cover
(SWIITS9-Q1-M8650)**



Rear of SWIITS9-Q1-M8650



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**

**Rear view of
Transdata small case**

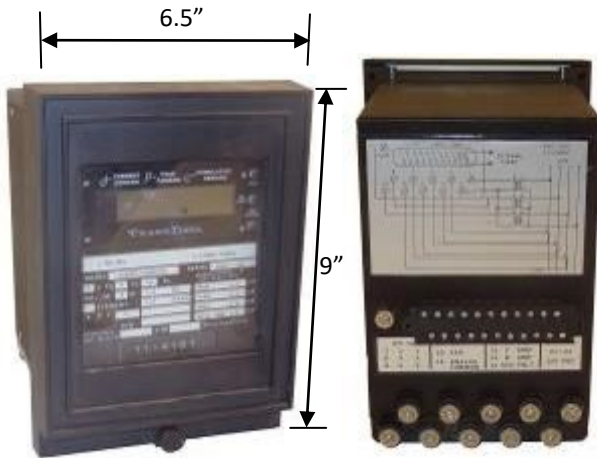


**Complete ION 8650 Retrofit
in small Transdata case
(SWIITS9-Q1-M8650)**



ION 8650 Retrofit #7B

**Transdata, 3 Element Meter in Small case with Transdata
Module Ethernet & 4 KYZ's
(SUSI # SWIITS9-TM1-M8650)**



**Front and rear view of
Transdata meter in small case**



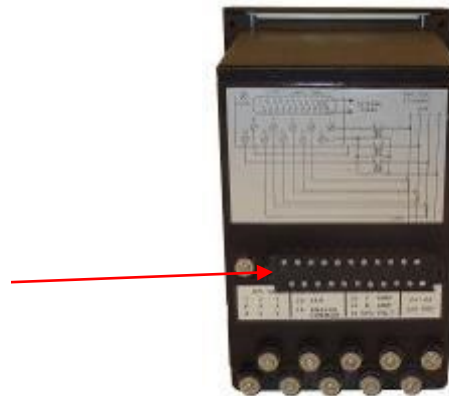
**ION 8650 Retrofit including collar and cover
(SWIITS9-TM1-M8650)**



Rear of SWIITS9-TM1-M8650



**Transdata Module (TM1) connects to back of
Transdata case**

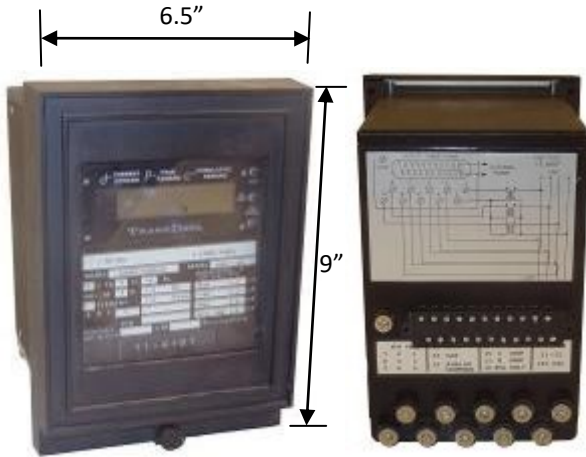


**Complete ION 8650 Retrofit
in small Transdata case
(SWIITS9-TM1-M8650)**



ION 8650 Retrofit #7C

**Transdata, 3 Element Meter in Small case with Transdata
Module RS-232 & 4 KYZ's
(SUSI # SWIITS9-TM2-M8650)**



**Front and rear view of
Transdata meter in small case**



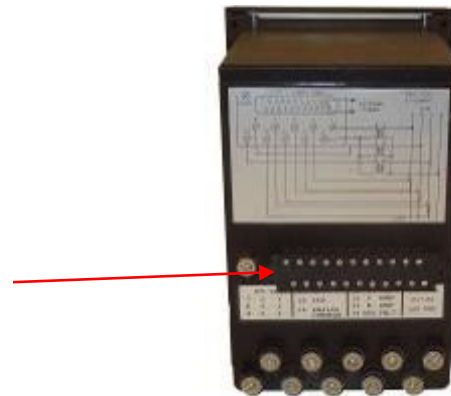
**ION 8650 Retrofit including collar and cover
(SWIITS9-TM2-M8650)**



Rear of SWIITS9-TM2-M8650



**Transdata Module (TM2) connects to back of
Transdata case**

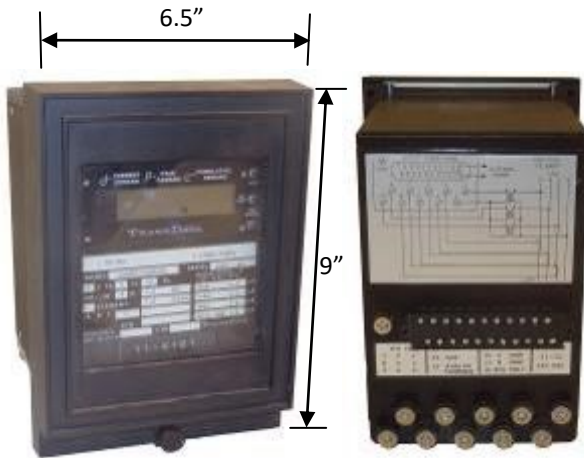


**Complete ION 8650 Retrofit
in small Transdata case
(SWIITS9-TM2-M8650)**



ION 8650 Retrofit #7D

**Transdata, 3 Element Meter in Small case with Transdata
Module Ethernet & Modem
(SUSI # SWIITS9-TM3-M8650)**



**Front and rear view of
Transdata meter in small case**



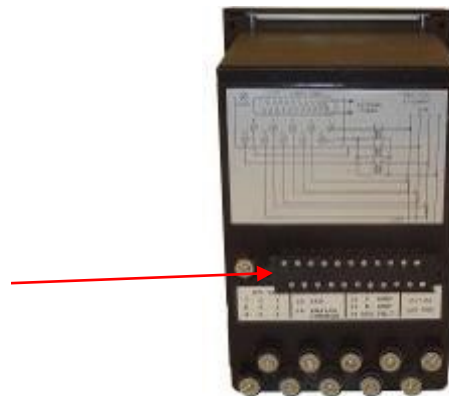
**ION 8650 Retrofit including collar and cover
(SWIITS9-TM3-M8650)**



Rear of SWIITS9-TM3-M8650



**Transdata Module (TM3) connects to back of
Transdata case**

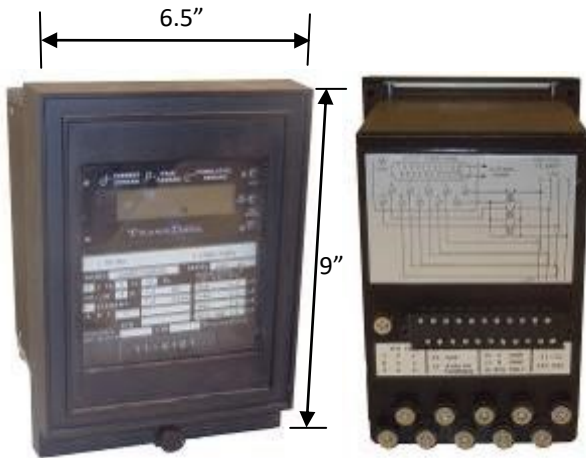


**Complete ION 8650 Retrofit
in small Transdata case
(SWIITS9-TM3-M8650)**



ION 8650 Retrofit #7E

**Transdata, 3 Element Meter in Small case with Transdata
Module Ethernet, RS-485 & Modem
(SUSI # SWIITS9-TM4-M8650)**



**Front and rear view of
Transdata meter in small case**



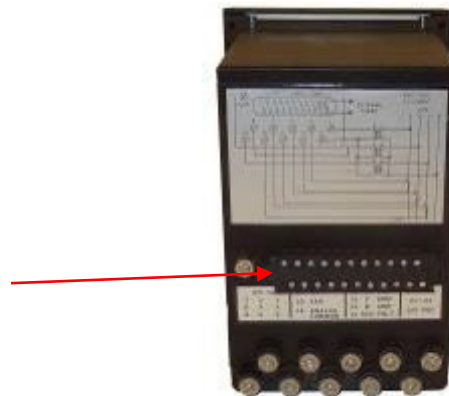
**ION 8650 Retrofit including collar and cover
(SWIITS9-TM4-M8650)**



Rear of SWIITS9-TM4-M8650



**Transdata Module (TM4) connects to back of
Transdata case**

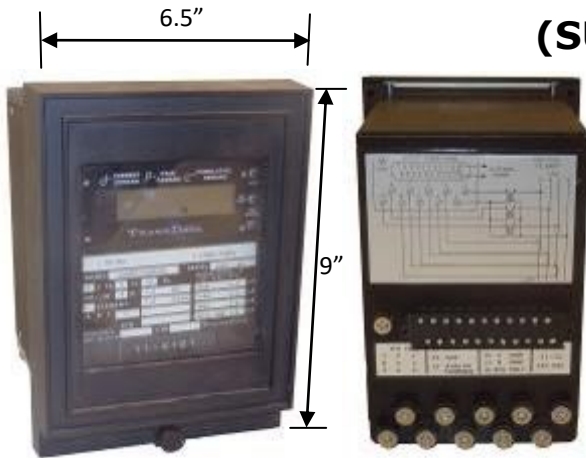


**Complete ION 8650 Retrofit
in small Transdata case
(SWIITS9-TM4-M8650)**



ION 8650 Retrofit #7F

**Transdata, 3 Element Meter in Small case with Transdata
Module Ethernet, RS-485 & RS-232
(SUSI # SWIITS9-TM5-M8650)**



**Front and rear view of
Transdata meter in small case**



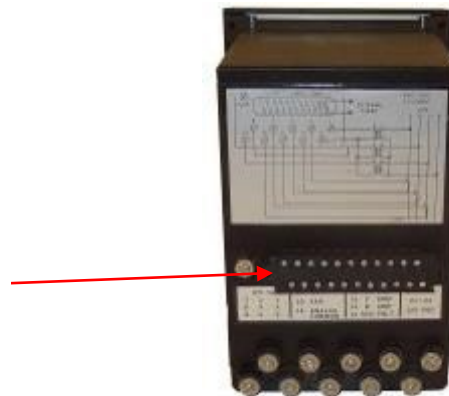
**ION 8650 Retrofit including collar and cover
(SWIITS9-TM5-M8650)**



Rear of SWIITS9-TM5-M8650



**Transdata Module (TM5) connects to back of
Transdata case**

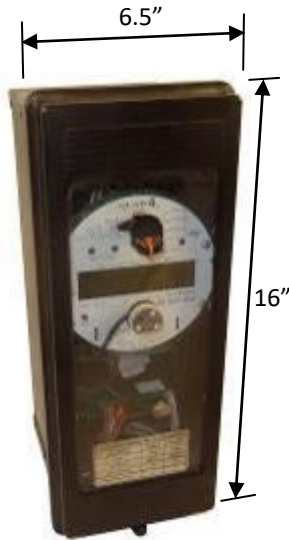


**Complete ION 8650 Retrofit
in small Transdata case
(SWIITS9-TM5-M8650)**



ION 8650 Retrofit #8

QUAD4, 3 element meter in FT-32 case
(SUSI # SWIWM9-Q1-M8650)



QUAD4 Meter in QUAD4 Tall Case

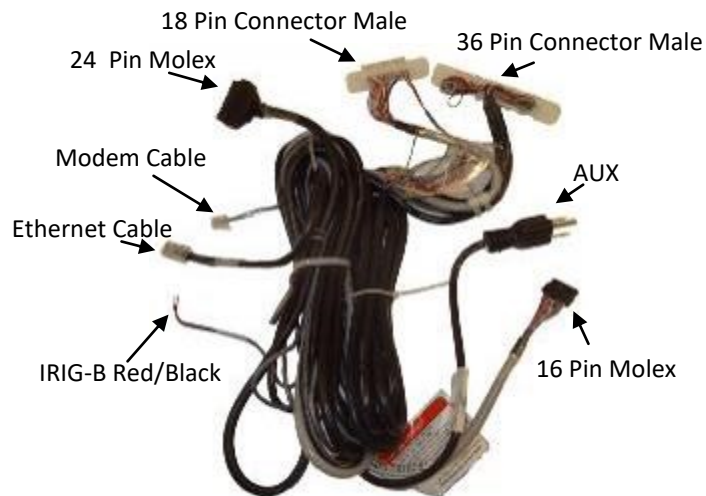


SWIWM9-Q1-M8650

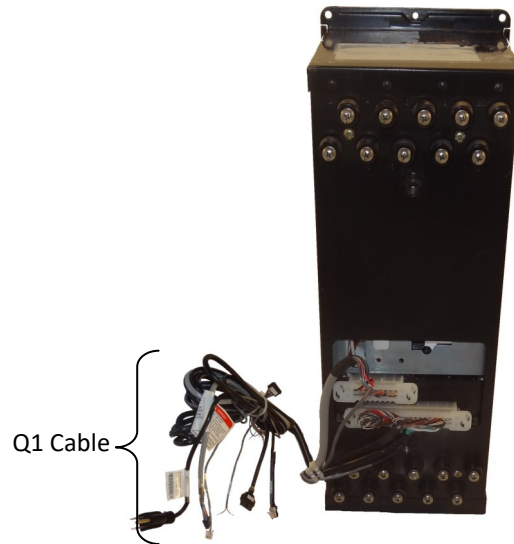
Cover—Use SUSI ION
8650 WM Cover
(SUSI# 310-1014-10)



**Rear view of
SWIWM9-Q1-M8650**



Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)



**Rear View of QUAD 4 case
with Q1 Cables**



**Complete ION 8650 Retrofit
for QUAD4 meter in case
(SWIWM9-Q1-M8650)**

900-2001-00-J



ION 8650 Retrofit #8B

**QUAD4, 3 element meter in FT-32 case with Analog Output
(SUSI # SWIWM9-Q4A-M8650)**



QUAD4 Meter in QUAD4 Tall Case

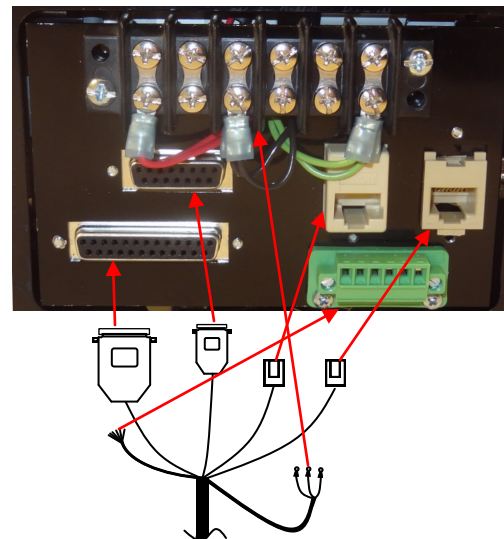
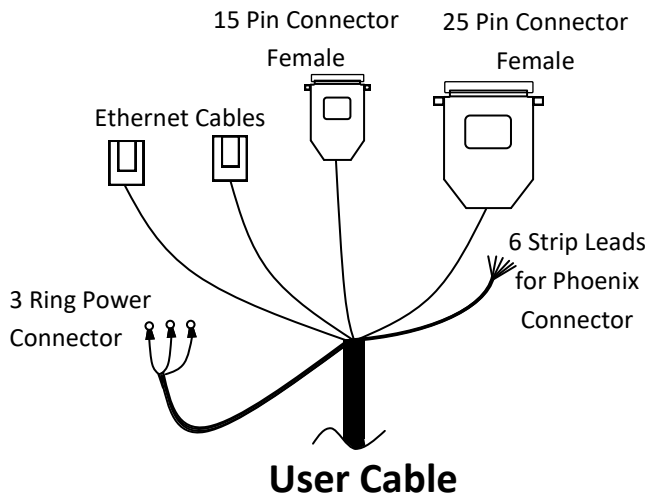


Cover—Use SUSI ION
8650 WM Cover
(SUSI# 310-1014-10)

SWIWM9-Q4A-M8650



**Rear view of
SWIWM9-Q4A-M8650**



**Rear View of QUAD 4 case
with installed SWIWM9-Q4A-M8650**



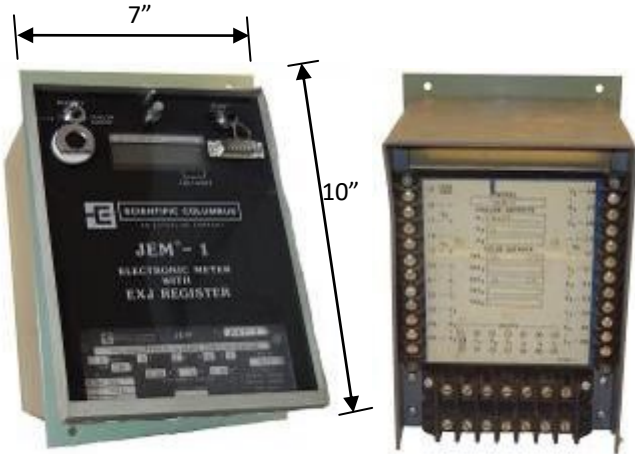
**Complete ION 8650 Retrofit
for QUAD4 meter in case
(SWIWM9-Q4A-M8650)**



ION 8650 Retrofit #9

**SWII JEM1 Adapter for 3 element SWB ION 8650 & New JEM II
3 element case (Modified FT-21 & Terminal Plate for ION SWB)**

(SUSI # SWIWSJEM9 & SWCWSIIJEM9)



**Front and rear view of
JEM1 short hardwired case**



ION 8650 SWIWSJEM9

Front View



ION 8650 SWIWSJEM9

Rear View



**Rear view of SWCWSIIJEM9
ION 8650 in FT-21 case**



**Complete ION 8650
retrofit for JEM1 short
hardwired case**



ION 8650 Retrofit #10

Westinghouse/ABB 3 element meter in FT-21 small case with Ethernet (SWIWS9-ETH)



**Front and rear view of
Westinghouse meter in FT-21 case**



**Front and rear view of
ABB meter in FT-21 case**



**Front and rear view of ION 8650 retrofit in
Westinghouse/ABB case with Ethernet**



Rear View of SWIWS9-ETH



**ION 8650 Retrofitted into
Westinghouse/ABB cutout**



ION 8650 Retrofit #11

GE DS-63, ES, EPM 5100 and kV types of
2 elements meter in small S1 case.
(SUSI# SWIIGS5-Q1-M8650)



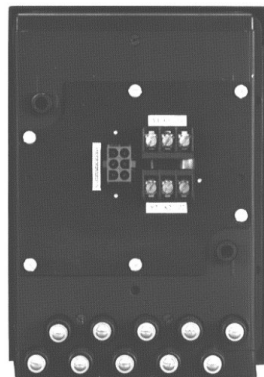
Front and rear view of
GE DS-63 meter in S1 Case



Front and rear view of
ES meter in S1 Case



Front and rear view of
EPM 5100 meter in S1 Case



Front and rear view of
kV in S1 Case





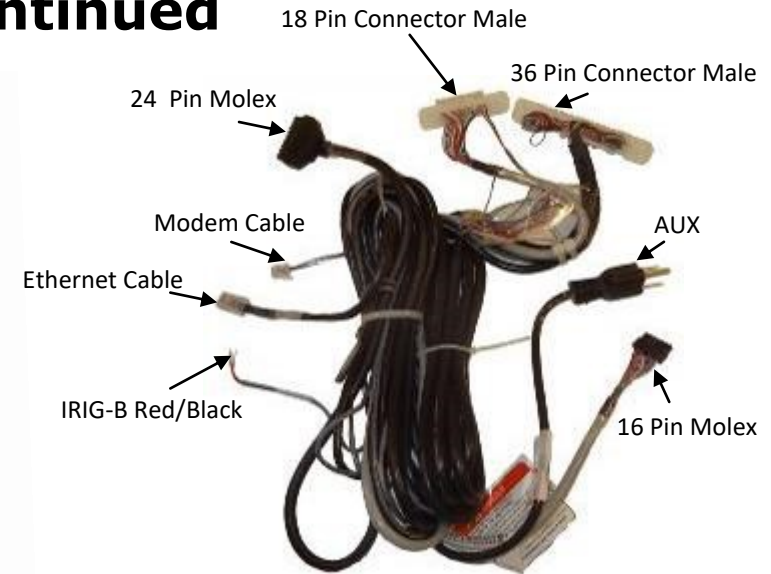
ION 8650 Retrofit #11 continued



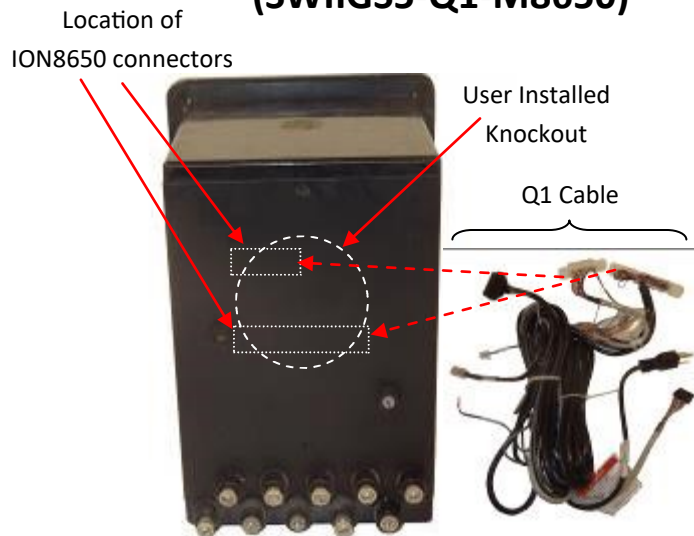
**ION 8650 Retrofit including collar and cover
(SWIIGS5-Q1-M8650)**



**Rear view of
SWIIGS5-Q1-M8650**



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



**Rear View of DS-65 meter in
S1 case with ION 8650 and
Q1 Cable**



**Rear View of ES, EPM 5100
and kV meter in S1 case with
ION 8650 and Q1 Cable**



**Complete ION 8650 Retrofit
in small GE S1 case
(SWIIGS5-Q1-M8650)**

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ION 8650 Retrofit #11B

**GE DSW-63, 2 Element meter in small S1 case with KYZ output
studs replaced with I/O connectors for direct connections
(SUSI # SWIIGS9-S1K-M8650)**



**Front and rear view of
ES meter in S1 Case**



**Front and rear view of
EPM 5100 meter in S1 Case**

**Front and rear view of
kV meter in S1 Case**



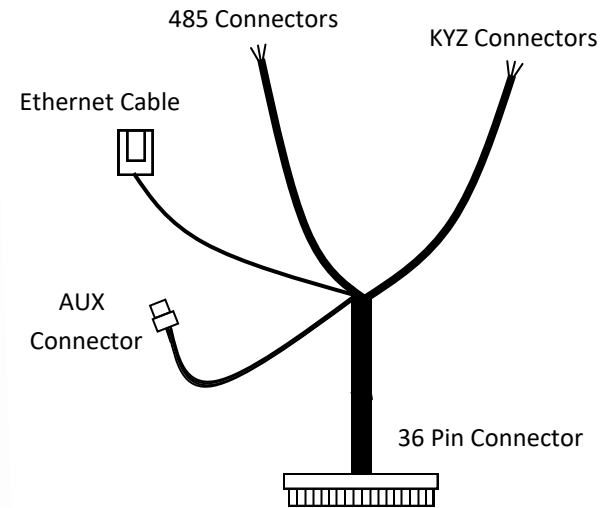
ION 8650 Retrofit #11B continued



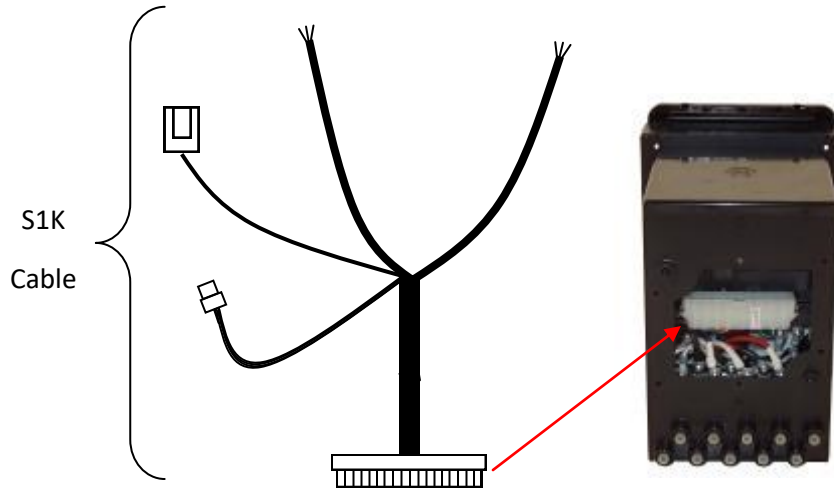
**ION 8650 Retrofit including collar and cover
(SWIIGS9-S1K-M8650)**



**Rear view of
SWIIGS9-S1K-M8650**



**S1K Cable (Custom Cable with
AUX, 485, one KYZ, & Ethernet)**



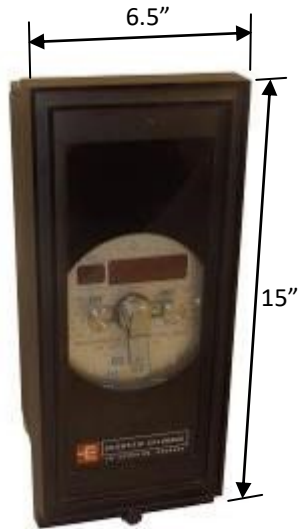
**Rear View of ES, EPM 5100
and kV meter in S1 case with
ION 8650 and S1K Cable**



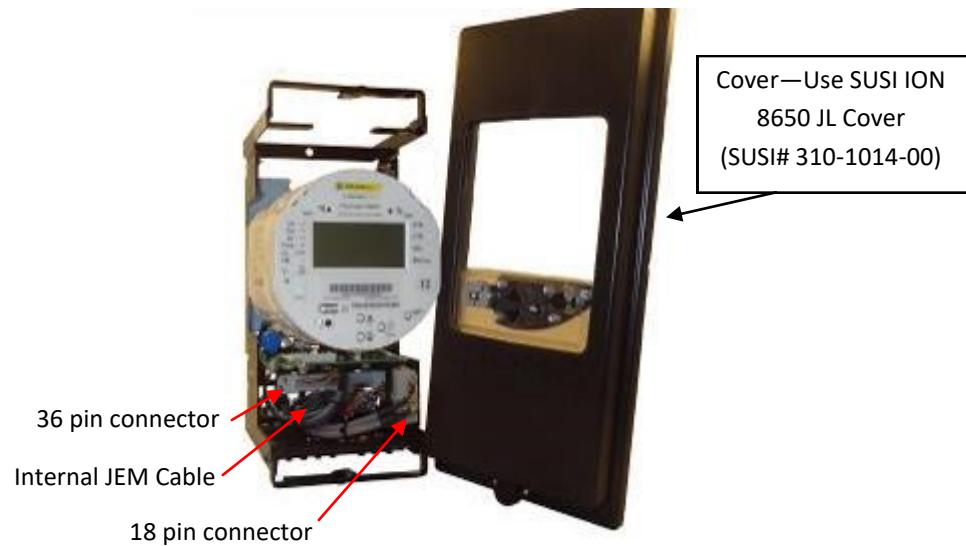
**Complete ION 8650 Retrofit
in small GE S1 case
(SWIIGS9-S1K-M8650)**



ION 8650 Retrofit #12 JEM2, 2 element meter in tall case (SUSI # SWIIL5-JEM-M8650)



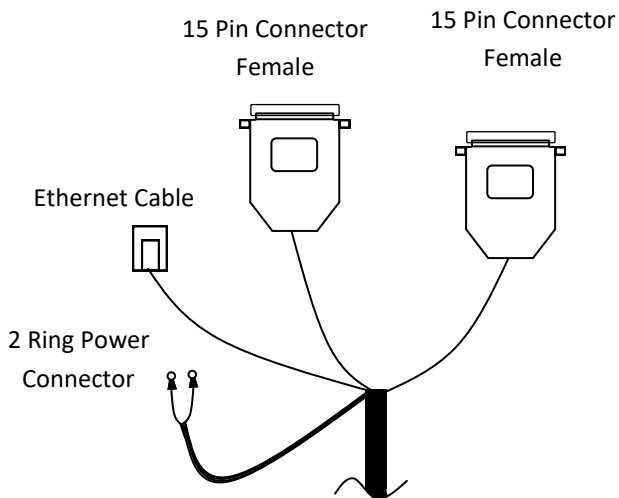
JEM2 meter in JEM2 Case



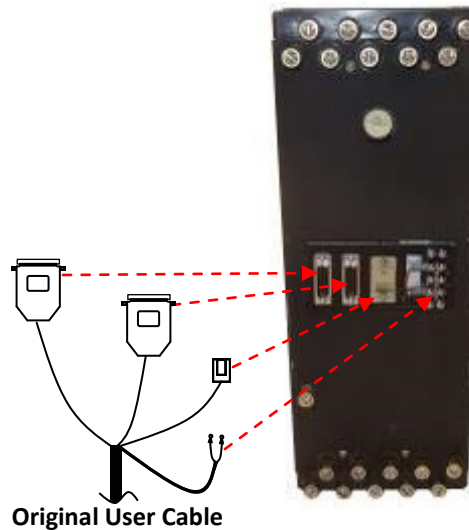
SWIIL5-JEM-M8650



Rear of SWIIL5-JEM-M8650



Original User Cable



Rear view of JEM2 Tall Case
with Original user cables



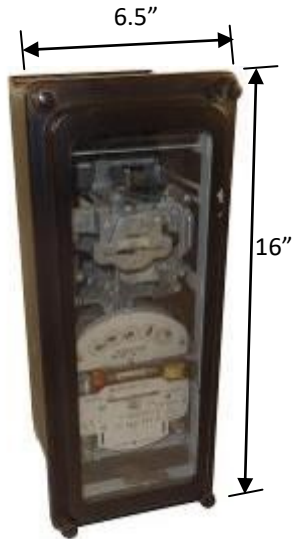
SWIIL5-JEM-M8650
in JEM2 Case

900-2001-00-J



ION 8650 Retrofit #13

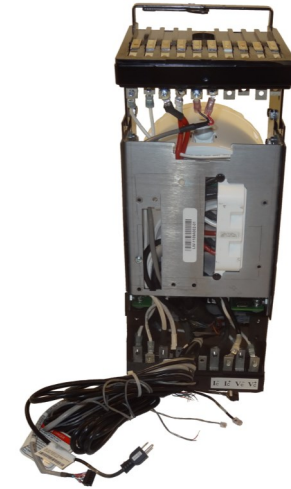
**GE DS-64, 3 element meter in tall case
(SUSI # SWIIGL9-Q1-M8650)**



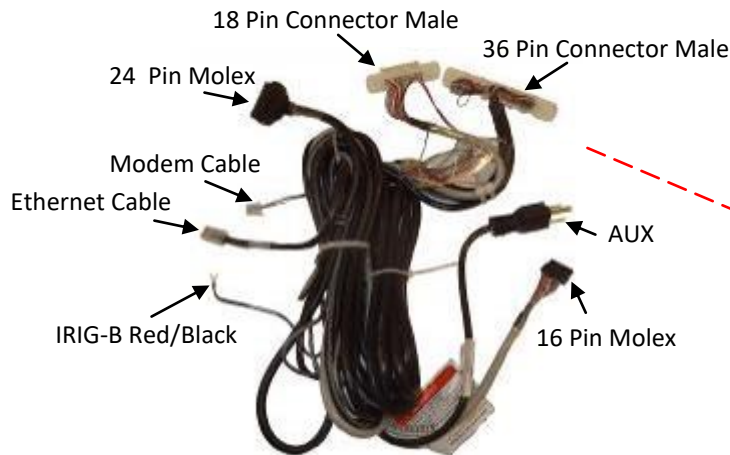
**Front and rear view of
GE DS-64 meter in Tall case**



SWIIGL9-Q1-M8650



**Rear of SWIIGL9-Q1-M8650 with
Q1 cable**



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



**Rear view of GE tall case with
ION 8650 installed
(SWIIGL9-Q1-M8650)**



**ION 8650 completely
installed in GE tall case
(SWIIGL9-Q1-M8650)**



ION 8650 Retrofit #14

**JEMSTAR, JEMSTAR II and JEM10, 3 element meter
in small case (SUSI # SWIITSJ9-Q1-M8650)**



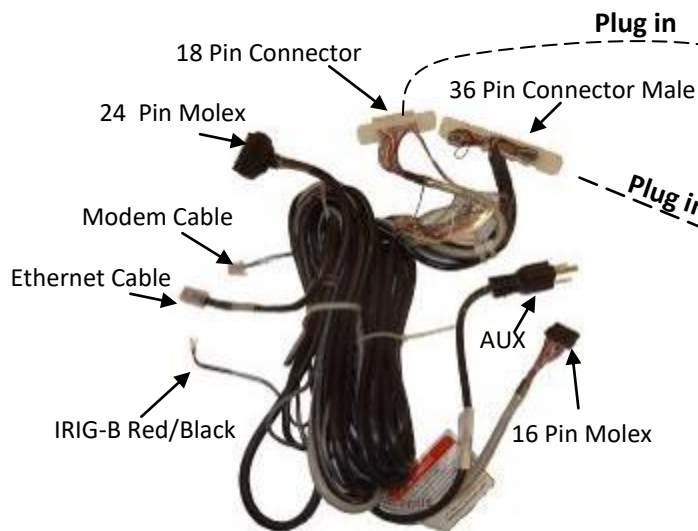
**Front and rear view of
JEMSTAR/JEM10 small case**



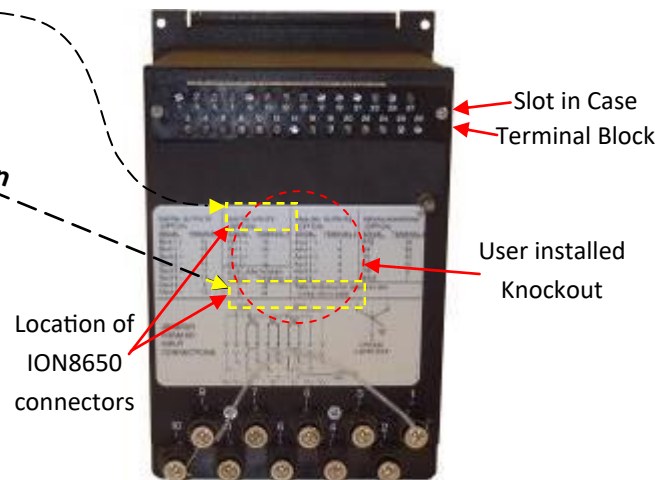
**ION 8650 Retrofit including collar and cover
(SWIITSJ9-Q1-M8650)**



Rear of SWIITSJ9-Q1-M8650



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



**Rear view of
JEMSTAR/JEM10 small case**



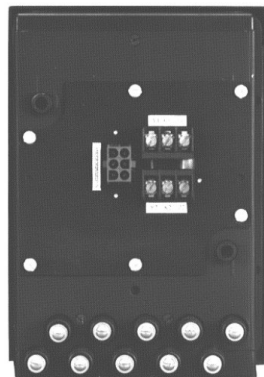
**Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ9-Q1-M8650)**



ION 8650 Retrofit #15
GE ES, EPM 5100 & KV 3 Element in small S1 case
(SUSI # SWIIGS9-Q1-M8650)



**Front and rear view of
ES meter in S1 Case**



**Front and rear view of
EPM 5100 meter in S1 Case**



**Front and rear view of
kV meter in S1 Case**

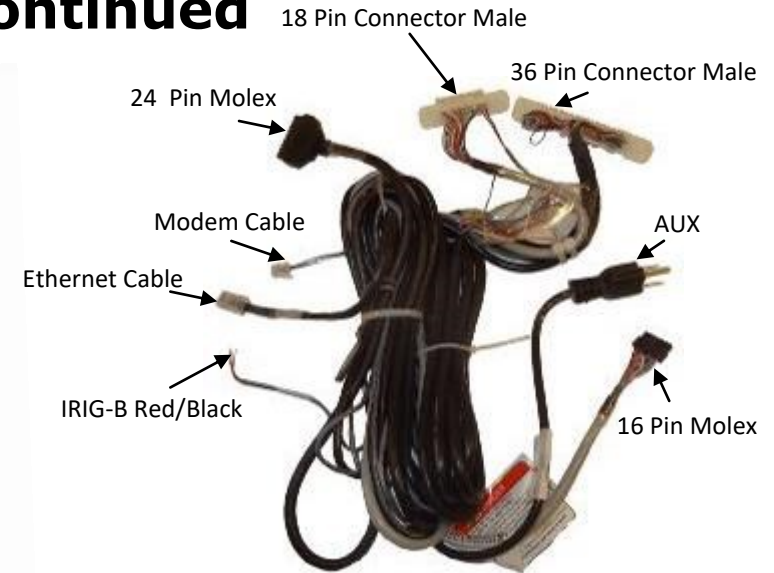
ION 8650 Retrofit #15 continued



**ION 8650 Retrofit including collar and cover
(SWIIGS9-Q1-M8650)**



**Rear view of
SWIIGS9-Q1-M8650**



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



**Rear View of ES, EPM 5100
and kV meter in S1 case with
ION 8650 and Q1 Cable**



**Complete ION 8650 Retrofit
in small GE S1 case
(SWIIGS9-Q1-M8650)**



ION 8650 Retrofit #16 **Q1000, 2 Element Meter** **(SUSI # SWIIL5-QK1-M8650)**



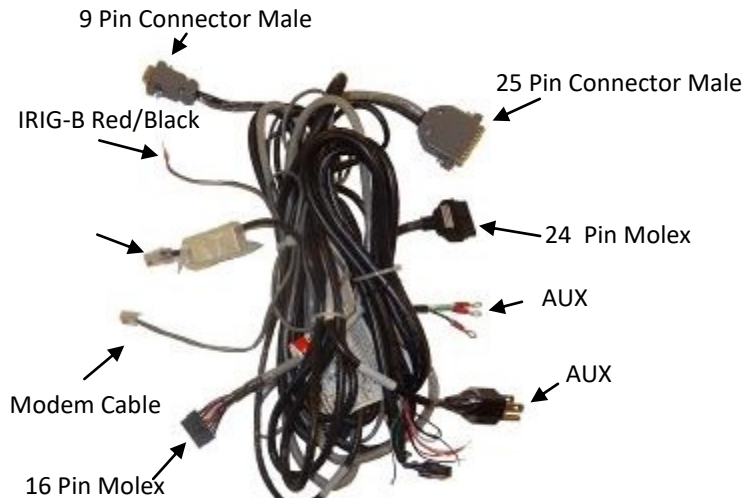
Q1000 Meter in Q1000 Case



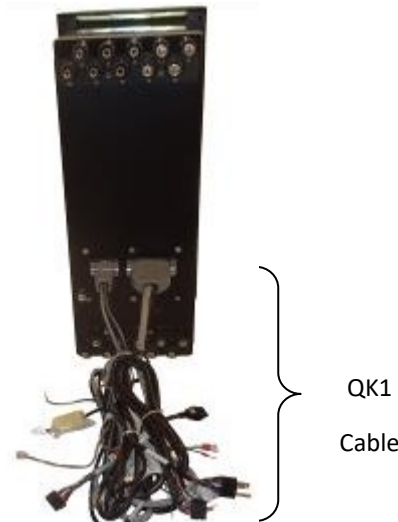
SWIIL5-QK1-M8650



Rear of SWIIL5-QK1-M8650



QK1 Cable



**Back of Q1000 Case
with QK1 Cables**



**SWIIL5-QK1-M8650
in Q1000 Case**



ION 8650 Retrofit #17

**JEMSTAR, 3 Element Meter in a small case with the
KYZ-RS-232 PCB Connection
(SUSI # SWIITSJ9-JEMS2-M8650)**



**Front and rear view of
JEMSTAR/JEM10 small case**



**ION 8650 Retrofit including collar and cover
(SWIITSJ9-JEMS2-M8650)**



**Ground Spring
Connection**

Rear of SWIITSJ9-JEMS2-M8650



**JEMS2 Module connects to back of
JEMSTAR case**



**Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ9-JEMS2-M8650)**



ION 8650 Retrofit #18

**JEMSTAR, 2 Element Meter in a small case with the
KYZ-RS-232 PCB Connection
(SUSI # SWIITSJ5-JEMS2-M8650)**



**Front and rear view of
JEMSTAR/JEM10 small case**



**ION 8650 Retrofit including collar and cover
(SWIITSJ5-JEMS2-M8650)**



**Ground Spring
Connection**

Rear of SWIITSJ5-JEMS2-M8650



**JEMS2 Module connects to back of
JEMSTAR case**



**Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ5-JEMS2-M8650)**



ION 8650 Retrofit #19

**3 Element meter in FT-31 case (10 switches at bottom only)
(SUSI # SWIWL9-Q1-M8650)**



CB-2F Meter in FT-31 Case

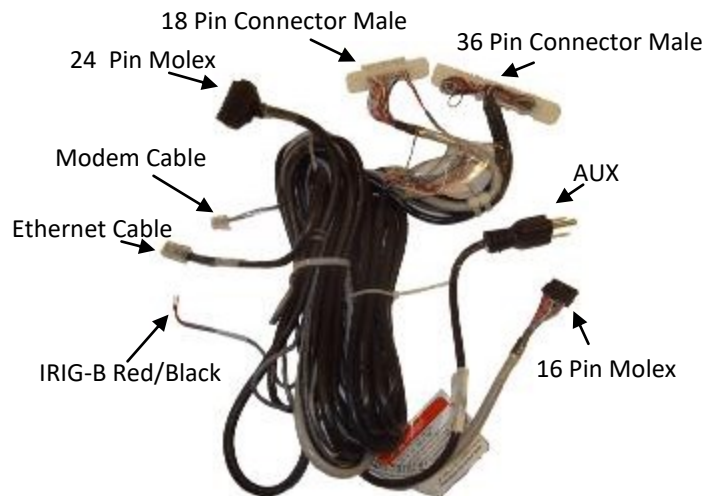


Cover—Use SUSI ION
8650 WM Cover
(SUSI# 310-1014-10)

SWIWL9-Q1-M8650



**Rear view of
SWIWL9-Q1-M8650**



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



**Rear View of FT-31 case
with Q1 Cables**



**Complete ION 8650 Retrofit
for in FT-31case
(SWIWL9-Q1-M8650)**



ION 8650 Retrofit #20

**JEMSTAR, 3 Element Meter in a small case with the
KYZ-RS-485 PCB Connection
(SUSI # SWIITSJ9-JEMS4-M8650)**



Front and rear view of
JEMSTAR/JEM10 small case



ION 8650 Retrofit including collar and cover
(SWIITSJ9-JEMS4-M8650)



Ground Spring
Connection

Rear of SWIITSJ9-JEMS4-M8650



JEMS4 Module connects to back of
JEMSTAR case



Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ9-JEMS4-M8650)



ION 8650 Retrofit #21

**JEMSTAR, 2 Element Meter in a small case with the
KYZ-RS-485 PCB Connection
(SUSI # SWIITSJ5-JEMS4-M8650)**



**Front and rear view of
JEMSTAR/JEM10 small case**



**ION 8650 Retrofit including collar and cover
(SWIITSJ5-JEMS4-M8650)**



**Ground Spring
Connection**

Rear of SWIITSJ5-JEMS4-M8650



**JEMS4 Module connects to back of
JEMSTAR case**



**Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ5-JEMS4-M8650)**

ION 8650 Retrofit #22

JEM10, 3 Element meter in small case with PCB connection
(SWIITSX9-JEMX-M8650)



Front and rear view of
JEM10 small case



ION 8650 Retrofit including collar and cover
(SWIITSX9-JEMX-M8650)



Ground Spring
Connection

Rear of SWIITSX9-JEMX-M8650



JEMX Module connects to back of
JEM10 case



Complete ION 8650 Retrofit in
small JEM10 small case
(SWIITSX9-JEMX-M8650)



ION 8650 Retrofit #23

**Westinghouse/ABB 2.5 element meter in FT-21 small case with Ethernet
(SWIIWS6-ETH)**



**Front and rear view of
Westinghouse meter in FT-21 case**



**Front and rear view of
ABB meter in FT-21 case**



**Front and rear view of ION 8650 retrofit in
Westinghouse/ABB case with Ethernet**



Rear View of SWIIWS6-ETH



**ION 8650 Retrofitted into
Westinghouse/ABB cutout**



ION 8650 Retrofit #24

Westinghouse/ABB 3 element meter in FT-21 small case with
Ethernet & Aux Power Output
(SWIWS9-ETH-AUX-M8650)



Front and rear view of
Westinghouse meter in FT-21 case



Front and rear view of
ABB meter in FT-21 case



Front and rear view of ION 8650 retrofit in
Westinghouse/ABB case
with Ethernet and AUX



Rear View of
SWIWS9-ETH-AUX



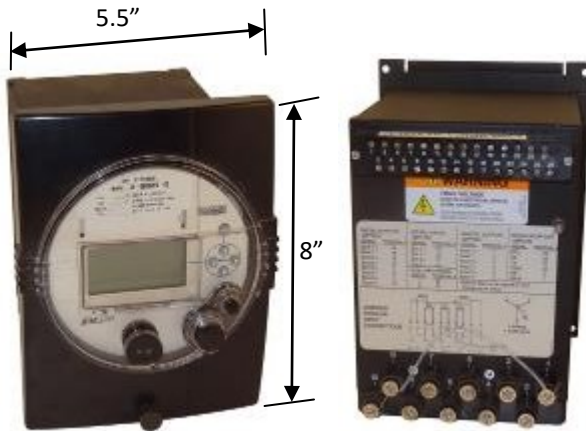
ION 8650 Retrofitted into
Westinghouse/ABB cutout



ION 8650 Retrofit #25

**JEMSTAR, 3 Element Meter in Small case with
RS-232 & RS-485 PCB Connection**

(SWIITSJ9-JEMS24-M8650)



**Front and rear view of
JEMSTAR/JEM10 small case**

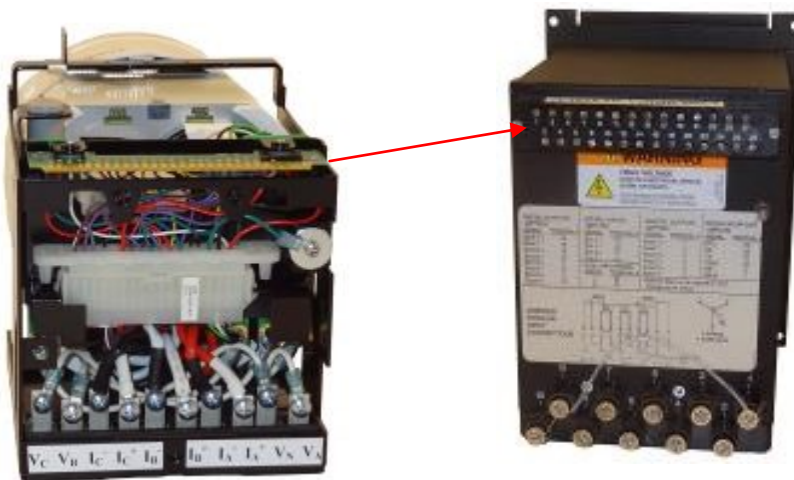


**ION 8650 Retrofit including collar and cover
(SWIITSJ9-JEMS24-M8650)**



**Ground Spring
Connection**

Rear of SWIITSJ9-JEMS24-M8650



**JEMS24 Module connects to back of
JEMSTAR case**



**Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ9-JEMS24-M8650)**



ION 8650 Retrofit #26

**JEMSTAR, 3 Element Meter in Small case with
I/O Expander, Ethernet, AUX Power, & Modem PCB Connection
(SWIITSJ9-JEMSXP-M8650)**



**Front and rear view of
JEMSTAR/JEM10 small case**



**ION 8650 Retrofit including collar and cover
(SWIITSJ9-JEMSXP-M8650)**



**Ground Spring
Connection**

Rear of SWIITSJ9-JEMSXP-M8650



**JEMSXP Module connects to back of
JEMSTAR case**



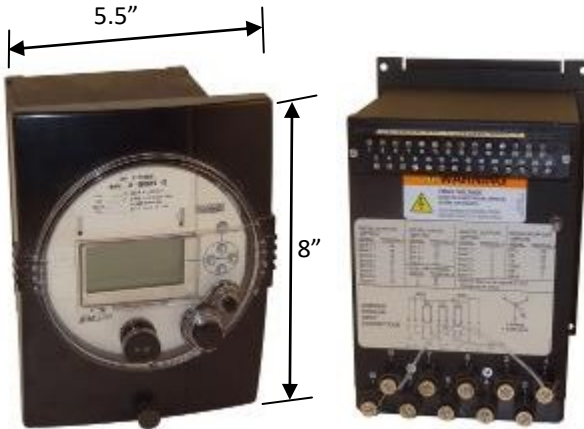
**Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ9-JEMSXP-M8650)**



ION 8650 Retrofit #27

JEMSTAR / JEM10, 2 Element Meter in Small case with mini Breakout Panel, Slide-n-Mate connection with AUX, Ethernet & 3 I/O

(SWIITSJBP5-JEMSX-M8650)



Front and rear view of
JEMSTAR/JEM10 small case



ION 8650 Retrofit including collar
with cover and new BP Module
(SWIITSJBP5-JEMSX-M8650)

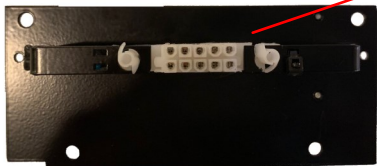


Rear View of JEMSTAR/JEM10 small
case with BP Module installed

BP Module
Front View



Back View



BP Module connects to rear
of SWIITSJBP5-JEMSX-M8650



Rear of SWIITSJBP5-JEMSX-M8650



Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJBP5-JEMSX-M8650)



ION 8650 Retrofit #28

JEMSTAR / JEM10, 3 Element Meter in Small case with mini Breakout Panel, Slide-n-Mate connection with AUX, Ethernet & 3 I/O

(SWIITSJBP9-JEMSX-M8650)



Front and rear view of
JEMSTAR/JEM10 small case



ION 8650 Retrofit including collar
with cover and new BP Module
(SWIITSJBP9-JEMSX-M8650)

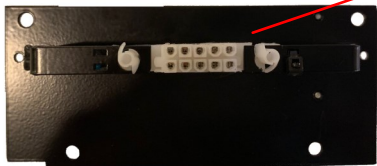


Rear View of JEMSTAR/JEM10 small
case with BP Module installed

BP Module
Front View



Back View



BP Module connects to rear
of SWIITSJBP9-JEMSX-M8650



Rear of SWIITSJBP9-JEMSX-M8650



Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJBP9-JEMSX-M8650)



ION 8650 Retrofit #29

**JEMSTAR, 3 Element Meter in Small case with AUX
power and Ethernet PCB Connection**

(SWIITSJ9-JEMSSC-M8650)



Front and rear view of
JEMSTAR/JEM10 small case



ION 8650 Retrofit including collar and cover
(SWIITSJ9-JEMSSC-M8650)



Ground Spring
Connection

Rear of SWIITSJ9-JEMSSC-M8650



JEMSSC Module connects to back of
JEMSTAR case



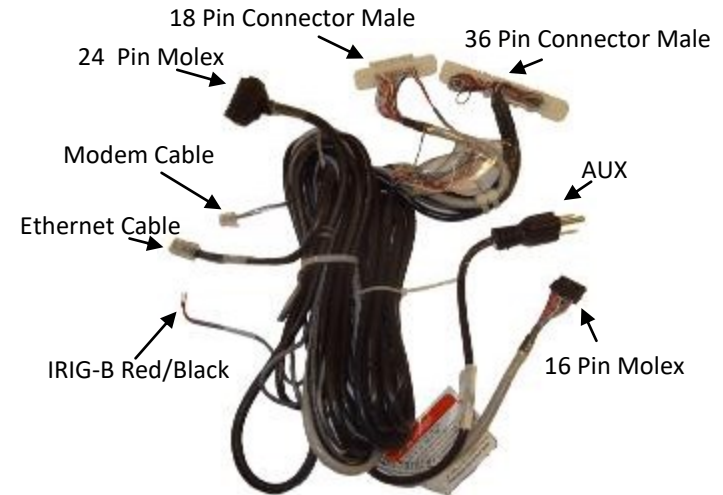
Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ9-JEMSSC-M8650)

ION 8650 Retrofit #30

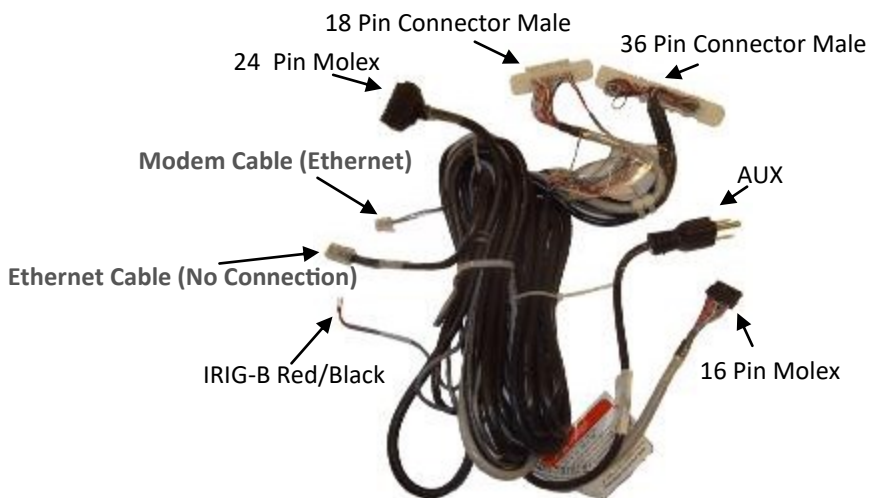
ION 8650 3 element meter in FT-21 small case with Ethernet routed through the modem cable (SWIWS9-QX1-M8650)



Front and rear view of ION 8650 in ION 8650 case



Q1 Cable (Original FT-21 Cable) (Schneider #C0H6C7B & C0H6C7C)



QX1 Cable (Modified FT-21 Cable)



Front and rear view of ION 8650 in ION 8650 case with Modem rerouted



ION 8650 Retrofit #31
JEMSTAR II, 3 Element Meter in Small case with
RS-232 & RS-485 PCB Connection
(SWIITSJ29-JEMS21-M8650)



**Front and rear view of
JEMSTAR II small case**



**ION 8650 Retrofit including collar and cover
(SWIITSJ29-JEMS21-M8650)**



**Complete ION 8650 Retrofit in
small JEMSTAR II small case
(SWIITSJ29-JEMS21-M8650)**



ION 8650 Retrofit #32

**JEMSTAR, 3 Element Meter in Small case with
RS-232, RS-485 & Digital Inputs PCB Connection**

(SWIITSJ9-JEMS24I-M8650)



**Front and rear view of
JEMSTAR/JEM10 small case**



**ION 8650 Retrofit including collar and cover
(SWIITSJ9-JEMS24I-M8650)**



**Ground Spring
Connection**

Rear of SWIITSJ9-JEMS24I-M8650



**JEMS24I Module connects to back of
JEMSTAR case**



**Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ9-JEMS24I-M8650)**



ION 8650 Retrofit #33

**Quantum, 3 Element Meter with Expander Module signals,
Ethernet & Modem routed to the 9 & 25 Pin Connectors
(SUSI # SWIIJL9-Q2-M8650)**

Cover—Use SUSI
ION 8650 JL Cover
(SUSI# 310-1014-00)



Quantum Meter in Quantum Case



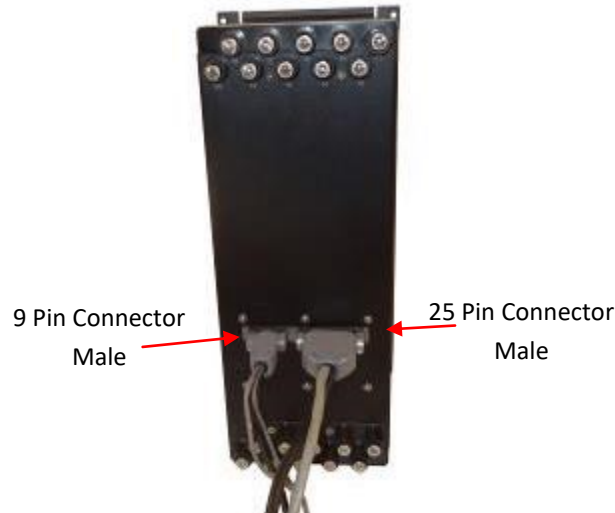
Inside of Quantum Case



SWIIJL9-Q2-M8650



**Rear View of
SWIIJL9-Q2-M8650**



**Rear View of Quantum Case
with Original User Cables**



**SWIIJL9-Q2-M8650
in Quantum Case**



ION 8650 Retrofit #34

**Quantum, 2 Element Meter with Expander Module signals,
Ethernet & Modem routed to the 9 & 25 Pin Connectors
(SUSI # SWIIJL5-Q2-M8650)**

Cover—Use SUSI
ION 8650 JL Cover
(SUSI# 310-1014-00)



Quantum Meter in Quantum Case



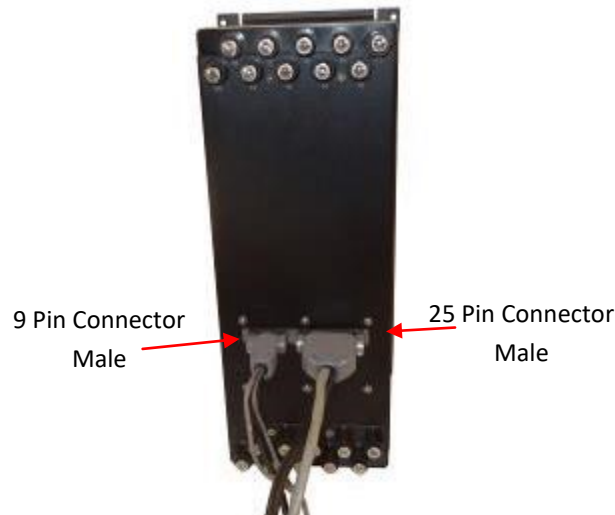
Inside of Quantum Case



SWIIJL5-Q2-M8650



**Rear View of
SWIIJL5-Q2-M8650**



**Rear View of Quantum Case
with Original User Cables**

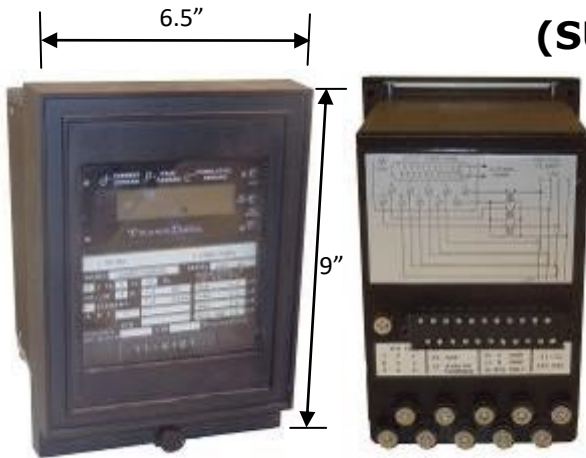


**SWIIJL5-Q2-M8650
in Quantum Case**



ION 8650 Retrofit #35

**Transdata, 2 Element Meter in Small case with Transdata
Module Ethernet, RS-485 & RS-232
(SUSI # SWIITS5-TM5-M8650)**



**Front and rear view of
Transdata meter in small case**



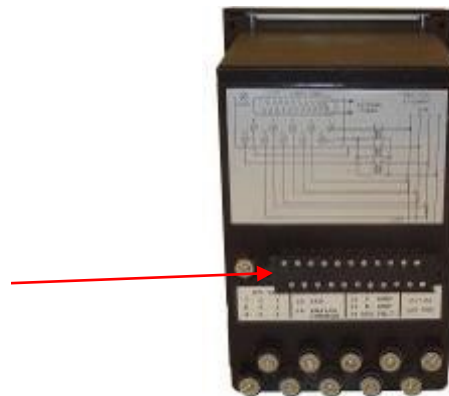
**ION 8650 Retrofit including collar and cover
(SWIITS5-TM5-M8650)**



Rear of SWIITS5-TM5-M8650



**Transdata Module (TM5) connects to back of
Transdata case**



**Complete ION 8650 Retrofit
in small Transdata case
(SWIITS5-TM5-M8650)**



ION 8650 Retrofit #36

**JEMSTAR / JEM10, 2.5 (Form 6) Element Meter in Small case with mini Breakout Panel, Slide-n-Mate connection with AUX, Ethernet & 3 I/O
(SWIITSJBP6-JEMSX-M8650)**



Front and rear view of
JEMSTAR/JEM10 small case



ION 8650 Retrofit including collar
with cover and new BP Module
(SWIITSJBP6-JEMSX-M8650)

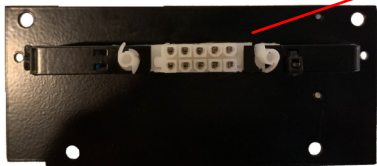


Rear View of JEMSTAR/JEM10 small
case with BP Module installed

BP Module
Front View



Back View



BP Module connects to rear
of SWIITSJBP6-JEMSX-M8650



Rear of SWIITSJBP6-JEMSX-M8650



Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJBP6-JEMSX-M8650)



ION 8650 Retrofit #37

**JEMSTAR / JEM10, 2.5 (Form 8) Element Meter in Small case with mini Breakout Panel, Slide-n-Mate connection with AUX, Ethernet & 3 I/O
(SWIITSJBP8-JEMSX-M8650)**



Front and rear view of
JEMSTAR/JEM10 small case



ION 8650 Retrofit including collar
with cover and new BP Module
(SWIITSJBP8-JEMSX-M8650)

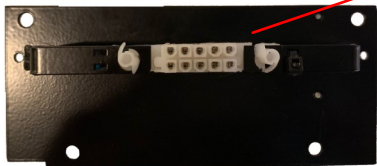


Rear View of JEMSTAR/JEM10 small
case with BP Module installed

BP Module
Front View



Back View



BP Module connects to rear
of SWIITSJBP8-JEMSX-M8650



Rear of SWIITSJBP8-JEMSX-M8650



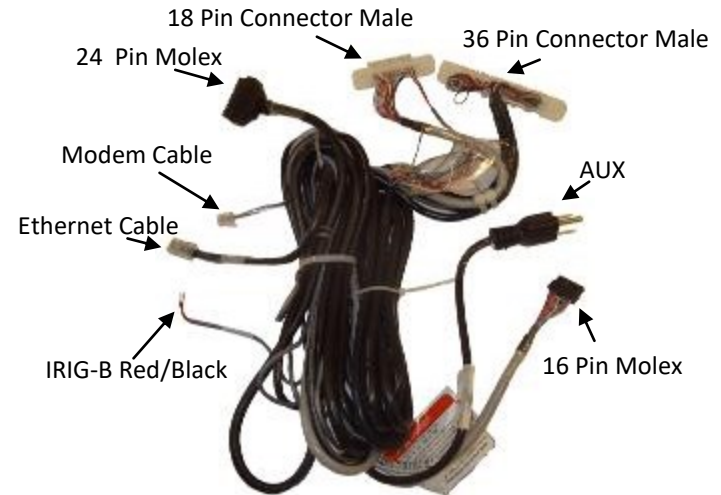
Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJBP8-JEMSX-M8650)

ION 8650 Retrofit #38

**ION 8650 3 element meter in FT-21 Elite case with
modified rear bracket for easy access
(SWIWS9-EL-M8650)**



**Front and rear view of
SWIWS9-EL-M8650**



**Q1 Cable (Original FT-21 Cable)
(Schneider #C0H6C7B & C0H6C7C)**



**Front and rear view of SWIWS9-EL-M8650 in
FT-21 Elite case with Q1 cable installed**



ION 8650 Retrofit #39

**JEMSTAR, 2 Element Meter in Small case with
RS-232 & RS-485 PCB Connection**

(SWIITSJ5-JEMS24-M8650)



**Front and rear view of
JEMSTAR/JEM10 small case**

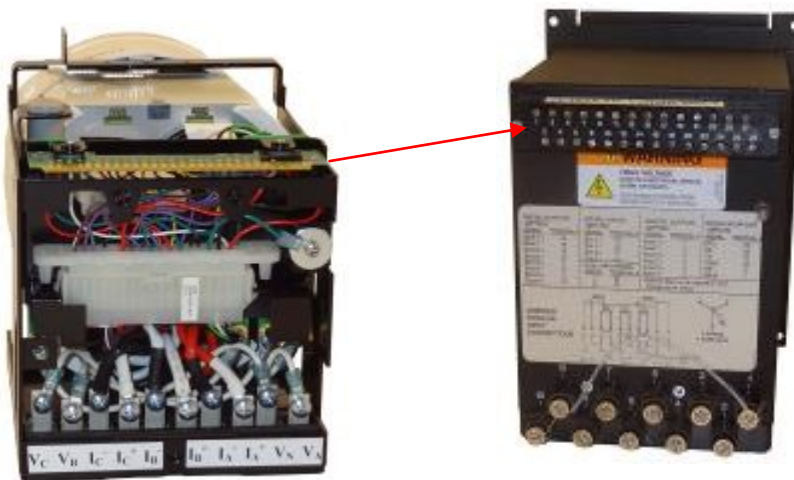


**ION 8650 Retrofit including collar and cover
(SWIITSJ5-JEMS24-M8650)**



**Ground Spring
Connection**

Rear of SWIITSJ5-JEMS24-M8650



**JEMS24 Module connects to back of
JEMSTAR case**

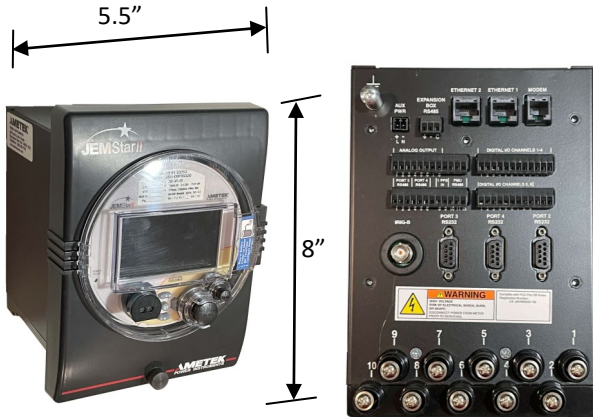


**Complete ION 8650 Retrofit in
small JEMSTAR/JEM10 small case
(SWIITSJ5-JEMS24-M8650)**

ION 8650 Retrofit #40

**JEMSTAR II, 3 Element Meter in Small case with Q5 Cable
(AUX, IRIG-B, RJ45, & RS-485)**

(SWIITSJ29-Q5-M8650)



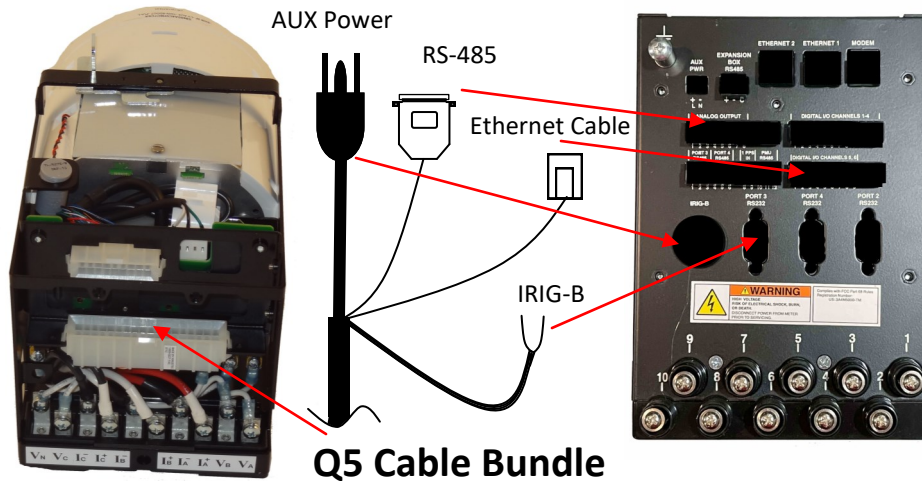
Front and rear view of
JEMSTAR II small case



ION 8650 Retrofit including collar and cover
(SWIITSJ29-Q5-M8650)



Rear of SWIITSJ29-Q5-M8650



JEMS29 cabling runs through rear of
JEMSTAR II case



Complete ION 8650 Retrofit in
small JEMSTAR II small case
(SWIITSJ29-Q5-M8650)