



Important warnings and instructions.
READ AND KEEP FOR REFERENCE





Interface Box

309366 Rev.E

For use with Informer[®] Meter Package and PrecisionView[™] AMR 2.0 software





Informer stations require the proper installation of interface hardware before connecting to a computer running PrecisionView AMR 2.0 software. There are four different Informer-specific interface boxes available. The type of interface box required depends on what other station types (devices) are installed on the same communication network and whether the Informer station(s) is installed in a hazardous or non-hazardous location. Each of the four interface boxes was designed for a specific combination of these variables. See the table of Interface Boxes below.

Interface Boxes — part no. and description

Network Configuration	Non-hazardous area		Hazardous area (associated devices)	
	Informer only	Informer and other devices	Informer only	Informer and other devices
Interface Box Part No.	244773	244774	244775	244776
Components:				
Power Supply	✓	✓	✓	✓
Isolator/Repeater		✓		✓
Terminating Resistor		✓		✓
Barrier-Power			✓	✓
Barrier-Signal			✓	✓
Approvals:				
 Conforms to: UL std. 3101 CAN/CSA 22.2 No. 1010-92	✓	✓	✓	✓
 Conforms to: UL std. 913, UL 3101, CAN/CSA 22.2 No. 157-92 & 1010.1-92 Class I, Div. 1, Group D Hazardous Location			✓	✓
	✓	✓	✓	✓
 Class I Zone 0 Group D			✓	✓
Maximum no. of Informer Stations/Interface Box	10	10	2	2

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Installation


WARNING




Improper wiring can cause a hazardous condition, which can result in fire, explosion, or electric shock. A qualified electrician must complete all grounding and wiring connections. Turn off the power to the device(s) before starting installation.

This manual covers the electrical connections required for each of the four interface boxes.

- Refer to FIG. 1 for general power and communication wiring connections between the interface box and Informer stations.
- See pages 6-9, for specific wiring information for the type of interface box you are installing.
- See the *PrecisionView AMR 2.0 Installation Guide* (Graco manual 196938), Section 2 and 3, for additional network configuration and installation instructions.

Overview

You can use two Belden 9841 cables for separate power and communication or one Alpha 58612 cable, which consists of two individually shielded, twisted pairs of 22 AWG wire.

In both Belden and Alpha cable configurations, one cable wire pair is used for the external 12 or 24 VDC power. The other cable wire pair is for serial communication to the remote computer. A ground/shield wire is also required.

Each interface box has an IEC-320 universal receptacle for incoming 120/240 VAC power on the top left side. Each box comes from the factory with two pre-wired cord sets, 241998 for North American applications and 115984 for European applications.

Communication cabling enters the box through a strain relief connector located toward the top center of the box. Directly below the strain relief are two-tiered terminals on which these conductors are then landed. The upper tier is for the communication conductors; the lower tier is for internal 12 or 24 VDC wiring. The incoming shield conductor is landed on the ground terminal.

Interface boxes 244774 and 244776 include a network terminating resistor. This resistor is in the form of a plug that inserts into the top of the terminals on which the incoming communication wires are landed. Refer to the *PrecisionView AMR 2.0 Installation Guide*, Section 2, to determine whether the terminating resistor should be plugged in or left out.

Communication and 12 or 24 VDC power cables leave the interface box on the lower right side. Two strain relief connectors are provided for this purpose. Outgoing communication conductors are landed on the terminals marked A and B, with power conductors landed on positive (+) and negative (-) terminals. The shield conductors can be landed on the negative (-) terminals.

Belden 9841 cable

(single-shielded twisted pair)

Wire Color	Description
white/blue	Communication (A)
blue/white	Communication (B)
shield	Ground

Graco Cable Part Numbers

Graco Part No. for Belden 9841 cable	Length
115769	500 ft. (152.4 m)
115770	1000 ft. (304.8)

Alpha 58612

(two individually-shielded twisted pairs)

1st Pair*	
Wire Color	Description
black	Common
red	+ 12 VDC
shield	Ground
2nd Pair	
Wire Color	Description
white	Communication (A)
black	Communication (B)
shield	Ground

* Can be used, for example, as 12 or 24 VDC power to an Informer station.

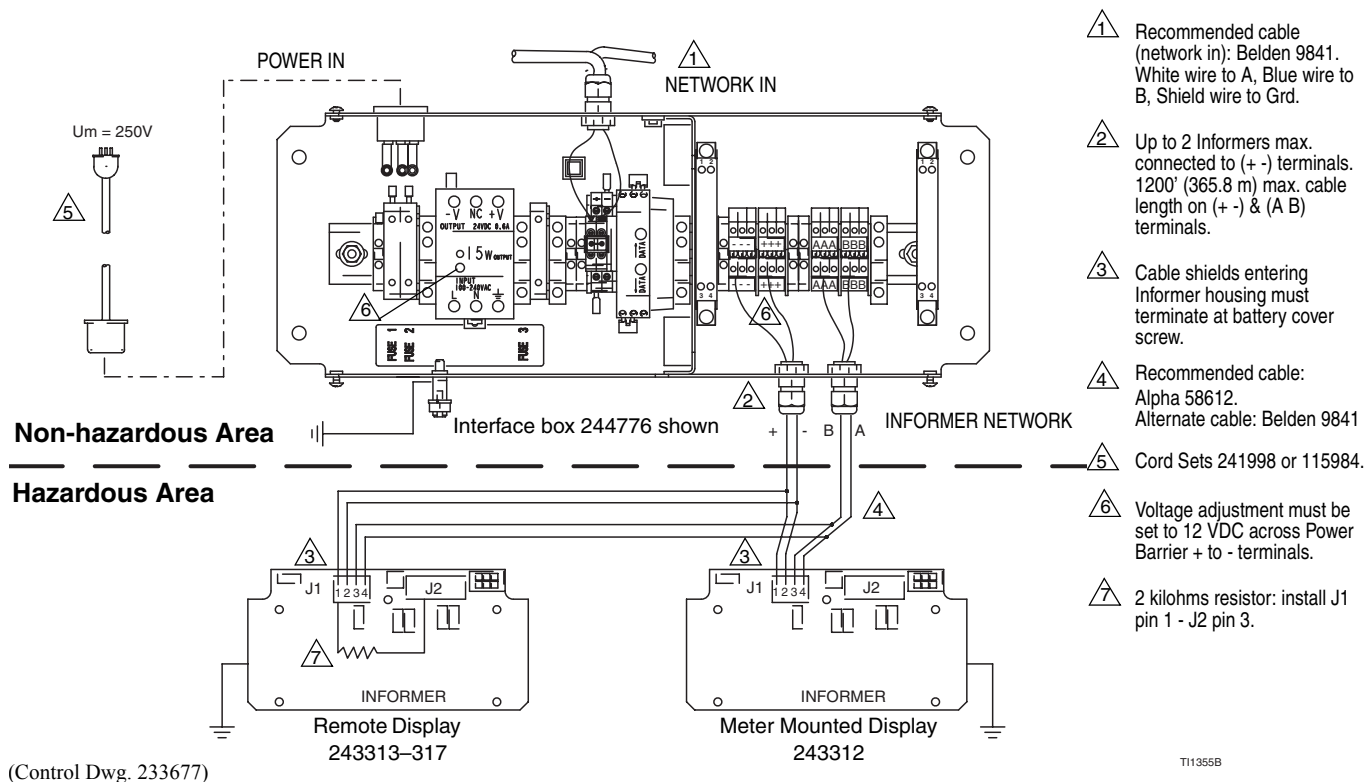


FIG. 1: Typical Informer Installation
Power and Communication Wiring for Hazardous Area (Interface box 244775 & 244776 only)



The power and communication wiring for part no. 224773 and 224774 is the same as shown in FIG. 1 except the Informer stations, as well as the interface boxes, must be installed in a non-hazardous area.

Interface Box 244775 and 244776 Only

Display Jumpers and Terminals

Interface Box 244775 and 244776 require that you install a 2 kilohm resistor from J1 terminal 1 to J2 terminal 3 on each Informer installed. See **FIG. 2**.

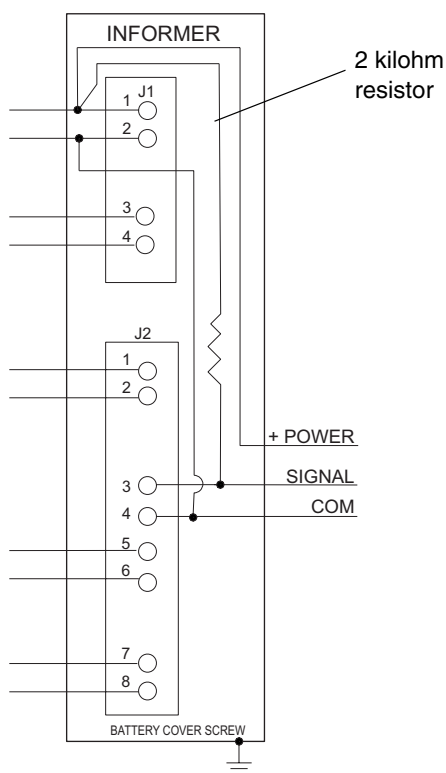


FIG. 2: 2 kilohm Resistor - Remote Display 243313–317 only

Check the Jumpers (see **FIG. 3**):

- JP3 must be in position 2-3 or removed.
- JP2 must be in position 1-2.
- JP1 should be in position 1-2 if you are using a remote meter for pulse input. If the display is mounted on the meter, use position 2-3.

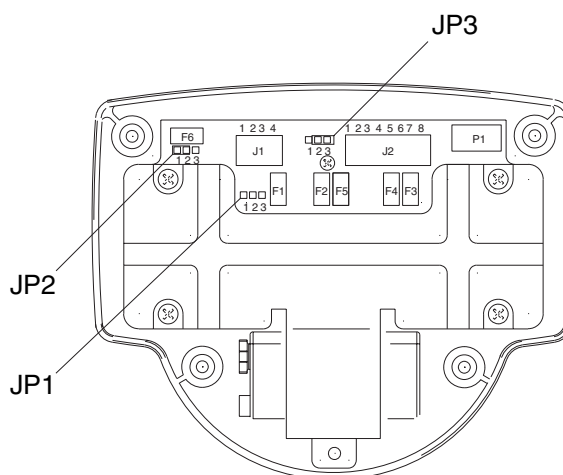


FIG. 3: Inside Informer Front Cover (all models)



A series of horizontal lines for writing or installation notes.

Interface Box 244773

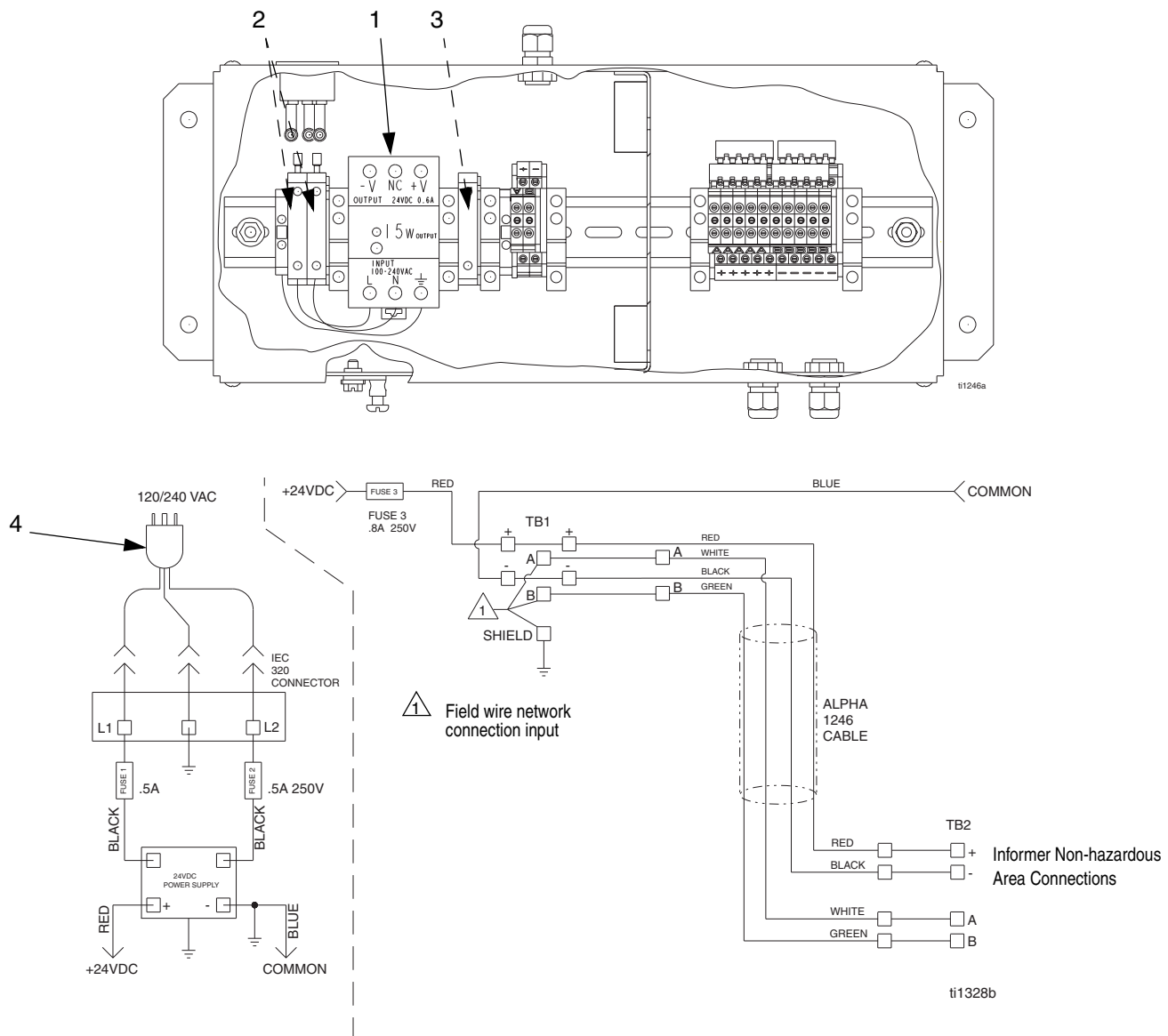


FIG. 4: Interface Box 244773

Parts List

Ref. #	Part #	Description	Qty.	Ref. #	Part #	Description	Qty.
1	116601	POWER SUPPLY, +24 V, 100 W	1	3	116683	FUSE, 0.8 A, 250 V	1
2	116682	FUSE, 0.5 A, 250 V	2	4	241998	CORD SET North America, 10 ft	1
					115984	CORD SET, Europe, 2 m	1

Interface Box 244774

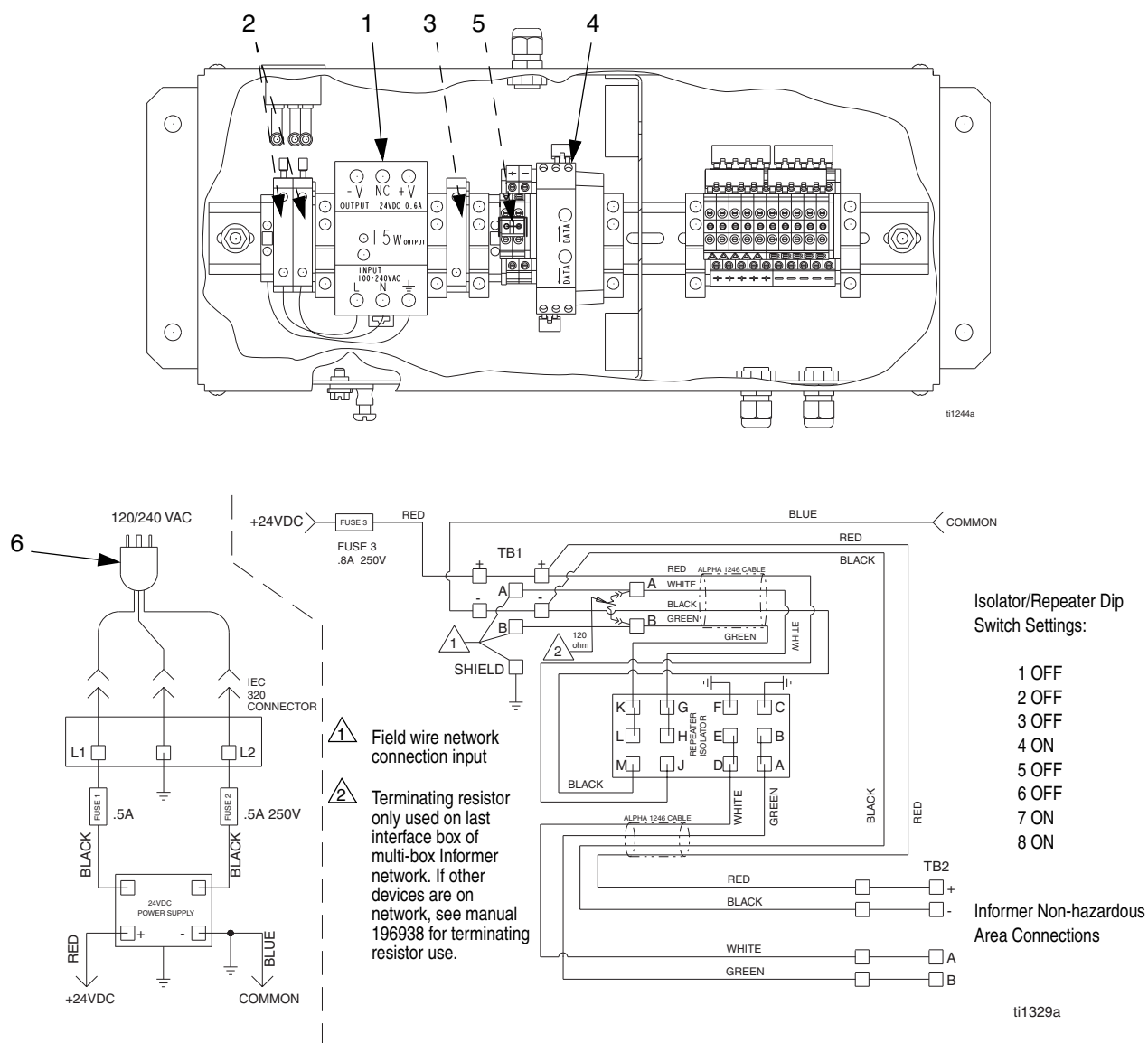


FIG. 5: Interface Box 244774

Parts List

Ref. #	Part #	Description	Qty.	Ref. #	Part #	Description	Qty.
1	116601	POWER SUPPLY, +24 V, 100 W	1	5	198229	RESISTOR, terminating	1
2	116682	FUSE, 0.5 A, 250 V	2	6	241998	CORD SET North America, 10 ft	1
3	116683	FUSE, 0.8 A, 250 V	1		115984	CORD SET, Europe, 2 m	1
4	116602	MODULE, line isolator	1				

Interface Box 244775

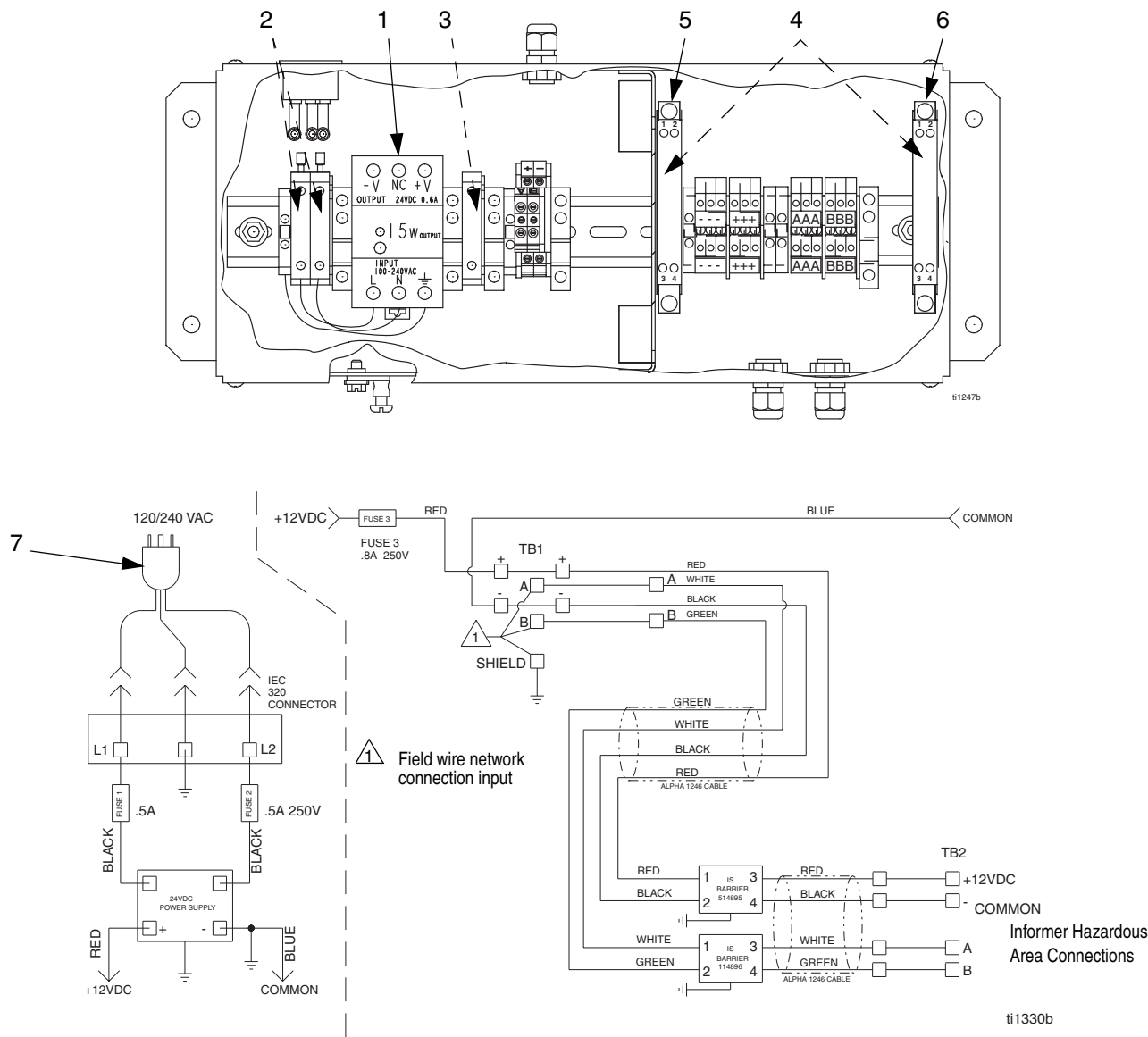


FIG. 6: Interface Box 244775

Parts List

Ref. #	Part #	Description	Qty.	Ref. #	Part #	Description	Qty.
1	116960	POWER SUPPLY, +12 V, 15 W	1	6	116959	BARRIER, signal	1
2	116682	FUSE, 0.5 A, 250 V	2	7	241998	CORD SET North America, 10 ft	1
3	116683	FUSE, 0.8 A, 250 V	1		115984	CORD SET, Europe, 2 m	1
4	115429	FUSE, barrier, 160 mA, 250 V	2	8	15A746	RESISTOR, 2 kilohms (shipped unassembled, not shown)	2
5	116958	BARRIER, power	1				

Interface Box 244776

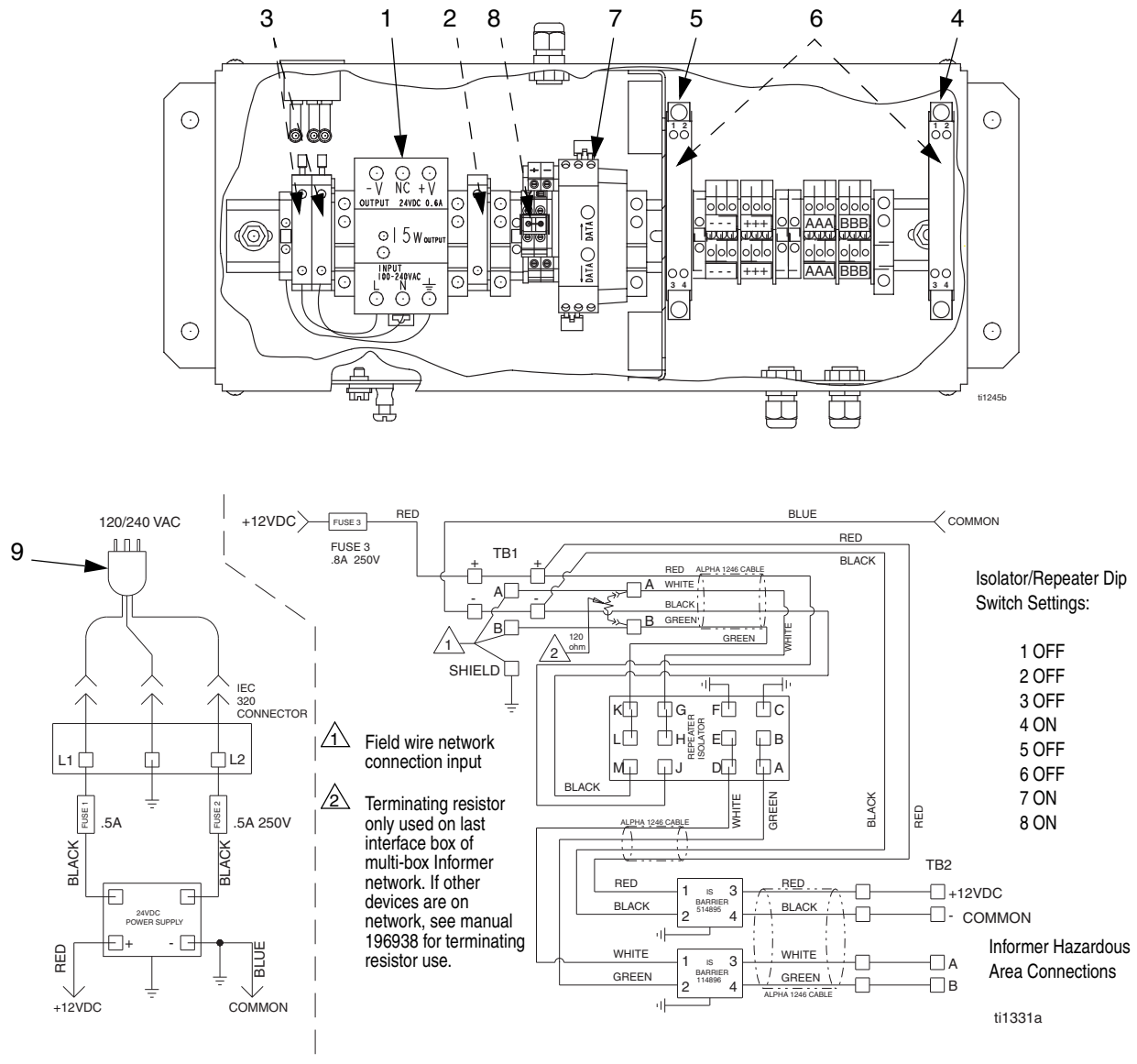


FIG. 7: Interface Box 244776

Parts List

Ref. #	Part #	Description	Qty.	Ref. #	Part #	Description	Qty.
1	116960	POWER SUPPLY, +12 V, 15 W	1	7	116602	MODULE, line isolator	1
2	116682	FUSE, 0.5 A, 250 V	2	8	198229	RESISTOR, terminating	1
3	116683	FUSE, 0.8 A, 250 V	1	9	241998	CORD SET North America, 10 ft	1
4	116959	BARRIER, signal	1		115984	CORD SET, Europe, 2 m	1
5	116958	BARRIER, power	1	10	15A746	RESISTOR, 2 kilohms (shipped unassembled, not shown)	2
6	115429	FUSE, barrier, 160 mA, 250 V	2				

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