



262709 Electronic Upgrade Kit

3A2581D
EN

To upgrade the PrecisionMix[®] II system to use the ProMix[®] 2KS controls and user interface (EasyKey). For professional use only.

Kit parts (except the EasyKey) are approved for use in explosive atmospheres, provided no PrecisionMix or non-ProMix 2KS electrical hardware is used in the system.



Important Safety Instructions

Read all warnings and instructions in this manual, in the manuals on the supplied ProMix 2KS CD, and in your PrecisionMix II manual 308916. **Save these instructions.**

See **Equipment Approvals** on page 2 for approvals information.



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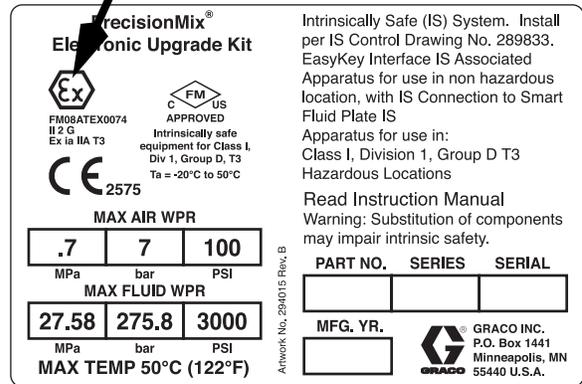
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Equipment Approvals

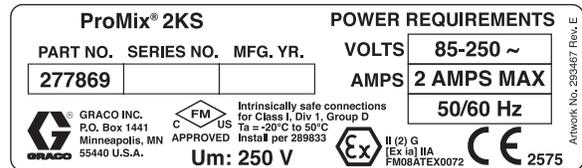
Equipment approvals appear on the following labels which are attached to the Fluid Station Control Box and EasyKey™. See FIG. 1 on page 3 for label locations.

Fluid Station Control Box Label

ATEX Certificate is listed here



EasyKey Label



ATEX Certificate is listed here

Related Manuals

Component Manuals in English. The listed ProMix 2KS manuals can be found on the supplied CD.

Manual	Description
308916	PrecisionMix II Instructions-Parts Manual
312775	ProMix 2KS Manual System Installation
312776	ProMix 2KS Manual System Operation
312777	ProMix 2KS Manual System Repair-Parts
312787	Color Change Module Kit
313212	Gun Flush Box Interface Kit

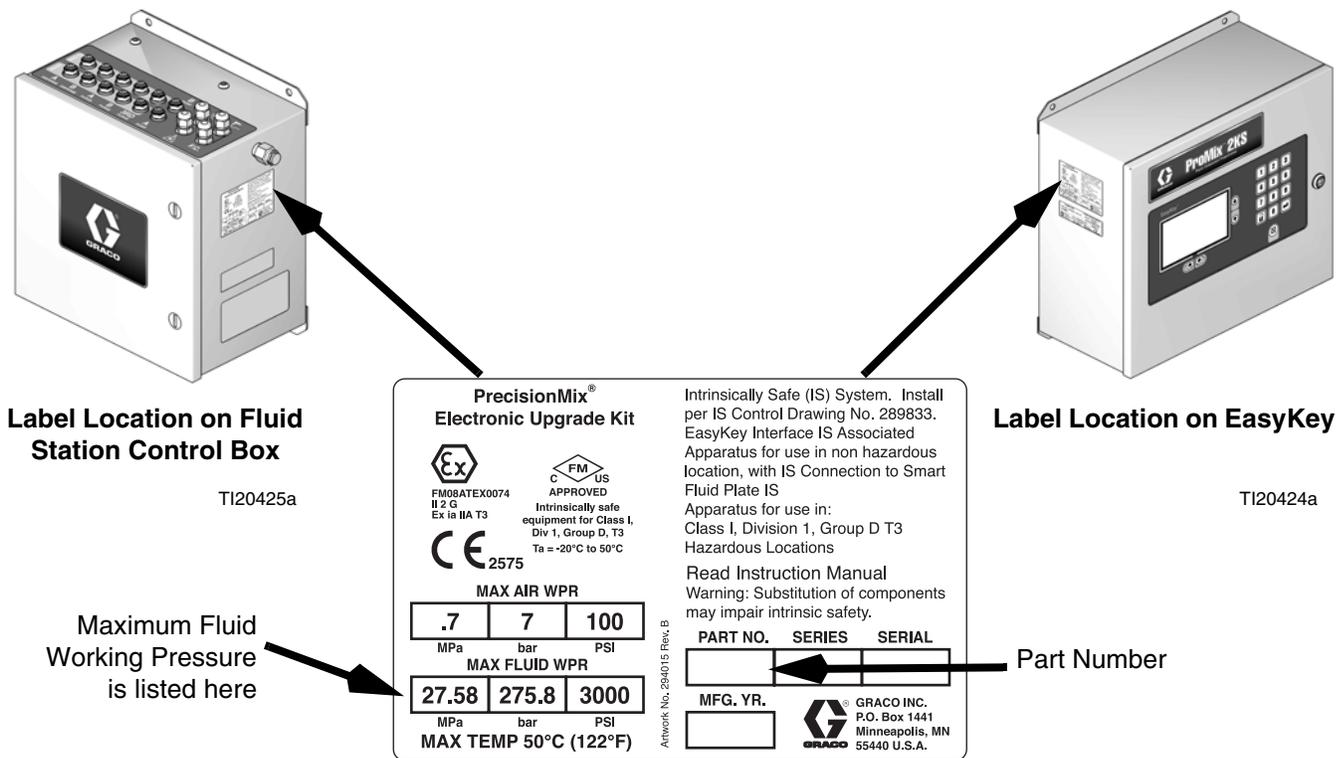
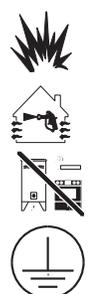


FIG. 1: Identification Label

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

 <h2 style="margin: 0;">WARNING</h2>	
	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> • Use equipment only in well ventilated area. • Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc). • Keep work area free of debris, including solvent, rags and gasoline. • Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present. • Ground all equipment in the work area. See Grounding instructions. • Use only grounded hoses. • Hold gun firmly to side of grounded pail when triggering into pail. • If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem. • Keep a working fire extinguisher in the work area.
	<p>ELECTRIC SHOCK HAZARD</p> <p>This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.</p> <ul style="list-style-type: none"> • Turn off and disconnect power at main switch before disconnecting any cables and before servicing or installing equipment. • Connect only to grounded power source. • All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.
	<p>INTRINSIC SAFETY</p> <p>Intrinsically safe equipment that is installed improperly or connected to non-intrinsically safe equipment will create a hazardous condition and can cause fire, explosion, or electric shock. Follow local regulations and the following safety requirements.</p> <ul style="list-style-type: none"> • Only models with a G3000, G250, G3000HR, G250HR, or intrinsically safe Coriolis meter are approved for installation in a Hazardous Location - Class I, Div I, Group D, T3 or Zone I Group IIA T3. • Do not install equipment approved only for a non-hazardous location in a hazardous area. See the ID label for the intrinsic safety rating of your model. • Do not substitute or modify system components as this may impair intrinsic safety.

⚠ WARNING



SKIN INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

- Tighten all fluid connections before operating the equipment.
- Do not point gun at anyone or at any part of the body.
- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read MSDS's to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.
- Always wear chemically impermeable gloves when spraying or cleaning equipment.



PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing protection

Important Two-Component Material Information

Isocyanate Conditions

						
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Spraying or dispensing materials containing isocyanates creates potentially harmful mists, vapors, and atomized particulates.

Read material manufacturer's warnings and material MSDS to know specific hazards and precautions related to isocyanates.

Prevent inhalation of isocyanate mists, vapors, and atomized particulates by providing sufficient ventilation in the work area. If sufficient ventilation is not available, a supplied-air respirator is required for everyone in the work area.

To prevent contact with isocyanates, appropriate personal protective equipment, including chemically impermeable gloves, boots, aprons, and goggles, is also required for everyone in the work area.

Material Self-ignition

						
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Some materials may become self-igniting if applied too thickly. Read material manufacturer's warnings and material MSDS.

Keep Components A and B Separate

						
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Cross-contamination can result in cured material in fluid lines which could cause serious injury or damage equipment. To prevent cross-contamination of the equipment's wetted parts, **never** interchange component A (isocyanate) and component B (resin) parts.

Moisture Sensitivity of Isocyanates

Isocyanates (ISO) are catalysts used in two component coatings. ISO will react with moisture (such as humidity) to form small, hard, abrasive crystals, which become suspended in the fluid. Eventually a film will form on the surface and the ISO will begin to gel, increasing in viscosity. If used, this partially cured ISO will reduce performance and the life of all wetted parts.

NOTE: The amount of film formation and rate of crystallization varies depending on the blend of ISO, the humidity, and the temperature.

To prevent exposing ISO to moisture:

- Always use a sealed container with a desiccant dryer in the vent, or a nitrogen atmosphere. **Never** store ISO in an open container.
- Use moisture-proof hoses specifically designed for ISO, such as those supplied with your system.
- Never use reclaimed solvents, which may contain moisture. Always keep solvent containers closed when not in use.
- Never use solvent on one side if it has been contaminated from the other side.
- Always lubricate threaded parts with ISO pump oil or grease when reassembling.

Changing Materials

- When changing materials, flush the equipment multiple times to ensure it is thoroughly clean.
- Always clean the fluid inlet strainers after flushing.
- Check with your material manufacturer for chemical compatibility.
- Most materials use ISO on the A side, but some use ISO on the B side.

Purpose of the Kit

Kit 262709 replaces all electronic components of the PrecisionMix II system with ProMix 2KS electronic components. PrecisionMix II fluid and air-operated dispense/purge valves are unchanged and can be used with the new electronics.

NOTE: The existing PrecisionMix II color change solenoids are not compatible with the ProMix 2KS electronics. Systems using color change require a new color change module. See manual 312787 to order the correct module for your system. The color valves themselves are compatible with the ProMix 2KS solenoids however, and may be used in the upgraded system.

Disassembly

1. Relieve all pressure in the PrecisionMix system. See PrecisionMix manual 308916.
2. Shut off all power to the PrecisionMix system.
3. See FIG. 2. Disconnect all cables from the PrecisionMix Controller (B). Remove and discard the controller.

NOTE: If your system includes gun flush box(es) or a RoboMix fluid panel, order 15V534 Gun Flush Box Interface Kit. See manual 313212 for instructions.

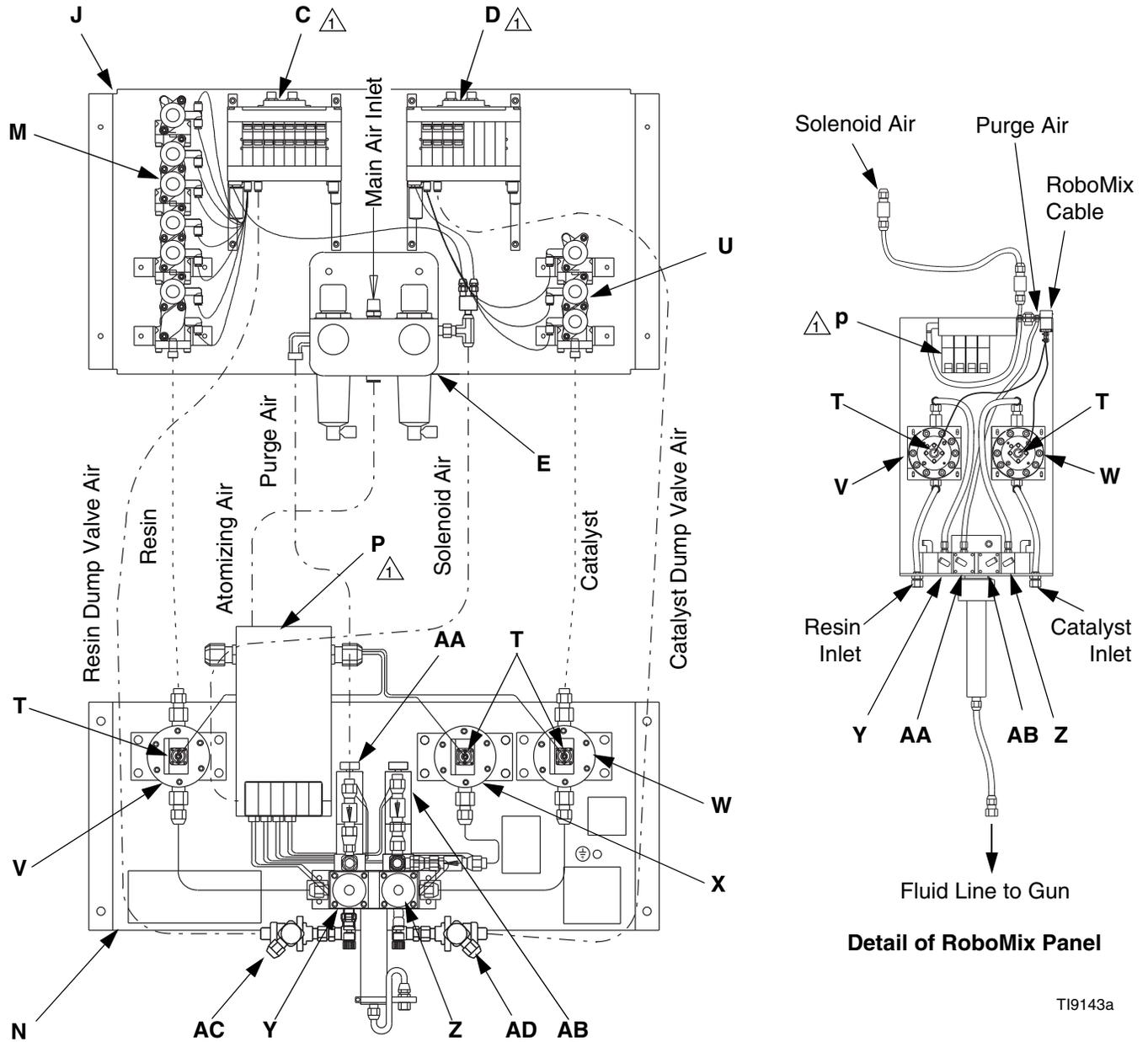
4. If your system includes gun flush box(es), disconnect the solenoid air lines at the gun flush box(es). Remove and discard the gun flush box solenoid box(es) (G) and cabling. The gun flush box(es) (H) may be reused.

NOTE: If your system includes flow control, it will need to operate as a ProMix 2KS automatic system. See manuals 312778, 312779, and 312780 for information on flow control. Also order a flow control module, available with an integrated fluid regulator (249849) or for use with a remote air-piloted fluid regulator (24H989). See manual 3A2097 for details.

5. If your system includes flow control, remove and discard the flow control station(s) (S) and cabling. Remove and discard the transducer (F) and cabling.
6. Remove and discard the operator station (Q or R) and cabling.

NOTE: Systems using color change require a color change module. See manual 312787 to order the correct module for your system.

7. See FIG. 3. Disconnect all cables from the color change solenoid bank (C) and from the catalyst change solenoid bank (D). Discard the cables.
8. Disconnect the air lines between the color/catalyst change solenoid banks and the valve stacks (M, U). Remove and discard the color change solenoid bank (C) and the catalyst change solenoid bank (D). Leave the valve stacks in place on the panel.
9. See FIG. 3. Disassemble parts from the fluid panel as follows.
 - a. For a wall panel:
 - Remove the air lines from the valves (Y, Z, AA, AB, AC, and AD). Leave the valves in place on the panel.
 - Disconnect the meter cables from the fluid panel solenoid box (P) and keep for reuse. Disconnect the meter sensors (T) from the meters and discard. Leave the meters in place on the panel.
 - Remove and discard the solenoid box (P), air lines, and solenoid box cable.
 - b. For a RoboMix panel:
 - See the detail in FIG. 3. Remove the air lines from the valves (Y, Z, AA, and AB). Leave the valves in place in the RoboMix panel.
 - Disconnect the meter cables from the RoboMix cable and keep for reuse. Disconnect the meter sensors (T) from the meters and discard. Leave the meters in place in the panel.
 - Remove and discard the solenoid air line and the solenoid bank (P) in the RoboMix panel.



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⚠ Remove and discard these parts.

FIG. 3. Color Change Panel and Fluid Panel

Install the Kit

						
<p>All electrical wiring must be completed by a qualified electrician and comply with all local codes and regulations.</p> <p>Enclose all cables routed in the spray booth and high traffic areas in conduit to prevent damage from paint, solvent, and traffic.</p>						

NOTE: See the ProMix 2KS Installation Manual (supplied) for complete installation requirements.

NOTE: FIG. 5 is a system layout showing the kit components. Reference numbers on the drawings refer to the **Parts** section on page 26. The color change module is not included and must be ordered separately for systems using color change.

Location Requirements

						
<p>Do not substitute or modify system components as this may impair intrinsic safety. For installation, maintenance or operation instructions, read instruction manuals. Do not install equipment approved only for non-hazardous location in a hazardous area. See the identification label (FIG. 1) on the EasyKey or fluid station for the intrinsic safety rating for your model.</p>						

- Mount the EasyKey (1) and Fluid Station Control Box (2) within 50 ft (15.2 m) of each other. The cables (2a, 2b) included with the control box are 50 ft (15.2 m) long.
- **EasyKey (1):** Install in the non-hazardous area at a convenient location for the operator to view and operate.
- **Fluid Station Control Box (2):** Install according to requirements for intrinsically safe installation and at a convenient location to connect to paint and solvent supplies.

NOTE: For an intrinsically safe installation, the Fluid Station Control Box may be located inside or outside the hazardous location. Install according to appropriate electrical codes. See the ProMix 2KS Installation Manual for intrinsically safe installation requirements.

- **Booth Control (4):** Install in the hazardous area at a convenient location for the operator to view and operate, within 50 ft (15.2 m) of the control box (2). Mount using the wall bracket (4b). The cable (4a) to connect the booth control to the control box is 50 ft (15.2 m) long.

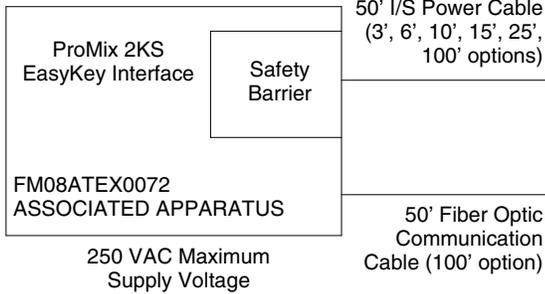
Intrinsically Safe Installation Requirements

See FIG. 4 on page 11.

1. The non-intrinsically safe terminals (power rail) must not be connected to any device which uses or generates more than 250 Vrms or dc unless it has been determined that the voltage has been adequately isolated.
2. The installation must meet the requirements of the National Electric Code, Canadian Electrical Code Part I, NFPA 70, Article 504 Resp., Article 505 and ANSI/ISA 12.06.01.
3. Multiple earthing of components is allowed only if high integrity equipotential system is realized between the points of bonding.
4. Do not operate system with safety barrier cover removed.
5. For ATEX, install per EN 60079-14 and applicable local and national codes.
6. For power connection to Coriolis: Install Coriolis flow meters as explosion proof (USA, Canada)/flame-proof Ex d (ATEX) per the manufacturer's installation instructions and applicable codes.
7. For signal to 2KS: Terminals 24 and 25 of optional Endress+Hauser Coriolis flow meters installed using intrinsically safe wiring methods.
8. For ATEX installations, interconnecting cabling specified is Type A cable in accordance with EN 60079-14.

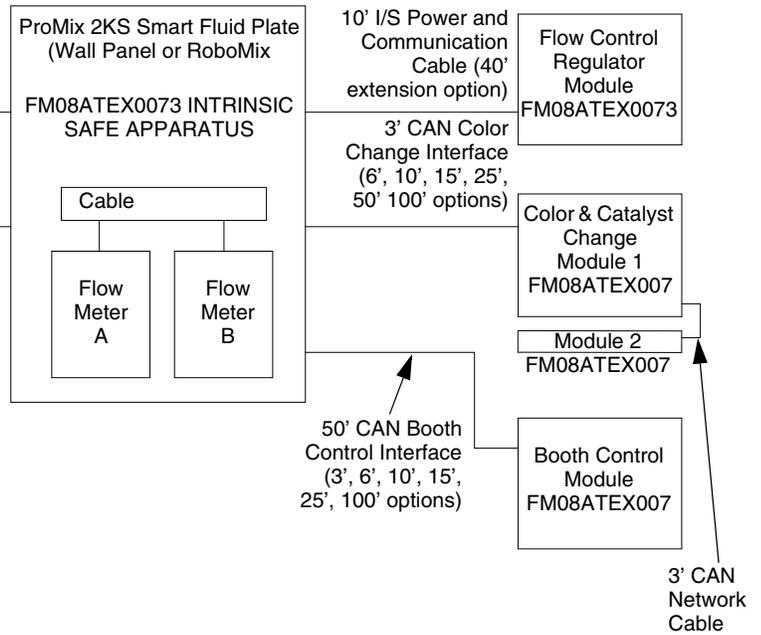
FM08ATEX0074 SYSTEM ASSEMBLY CERTIFICATE

NON-HAZARDOUS LOCATION ONLY



HAZARDOUS (CLASSIFIED) LOCATION

CLASS I, DIV I, GROUP D, T3 (US AND CANADA)
CLASS I, ZONE I GROUP IIA T3 (ATEX ONLY)
TAUB = -20°C TO 50°C



NOTE: See **Intrinsically Safe Installation Requirements** on page 10.

WARNING: Substitution of components may impair intrinsic safety. For installation, maintenance or operation instructions, see instruction manual.

ADVERTISSEMENT: La substitution de composants peut compromettre la securite intrinseque.

Coriolis Meter Options, DMT 00 ATEX E 074 X (No exceptions):

Size	Graco P/N	Endress+Hauser P/N
1/8"	15T633*	80A-04-A-SVW-9-A-N-A-B-B-A-S
3/8"	15T634*	801-08-A-999-9-A-N-A-B-B-A-S

Power			
EasyKey +24 Vdc Common			Meter Terminal Block # 1 2
Signal			
Fluid Plate Board	J3 Terminal		Meter Terminal Block #
Meter Position	A	B	
Signal	3	6	24
Common	2	5	25

* For P/N 15T633 order Coriolis Meter Kit 15V806.
For P/N 15T634 order Coriolis Meter Kit 258151.

IS Control Drawing 289833

FIG. 4. Intrinsically Safe Installation

Mounting

1. See **Dimensions and Mounting Hole Layouts**, page 28.
2. Ensure that the wall and mounting hardware are strong enough to support the weight of the equipment, fluid, hoses, and stress caused during operation.
3. Using the equipment as a template, mark the mounting holes on the wall at a convenient height for the operator and so equipment is easily accessible for maintenance.
4. Drill mounting holes in the wall. Install anchors as needed.
5. Bolt equipment securely.

Air Connections

See FIG. 5 and the **System Pneumatic Schematic** on page 23.

NOTE: The kit includes natural-colored tubing (3) to supply air between components. Cut all tubing to fit.

1. Install a purge air line (3) from the left fitting on the air control to the inlet of the air purge valve (AA).
2. Install a solenoid air line (3) from the right fitting on the air control to the air inlet of the fluid station control box (2).
3. Install the air flow switch kit (5) in the fluid station control box (2), following the instructions provided. Install an atomizing air line (3) from the bottom fitting of the air control to the air flow switch. Connect the gun air hose to the 1/4 npt(m) fitting of the air flow switch.

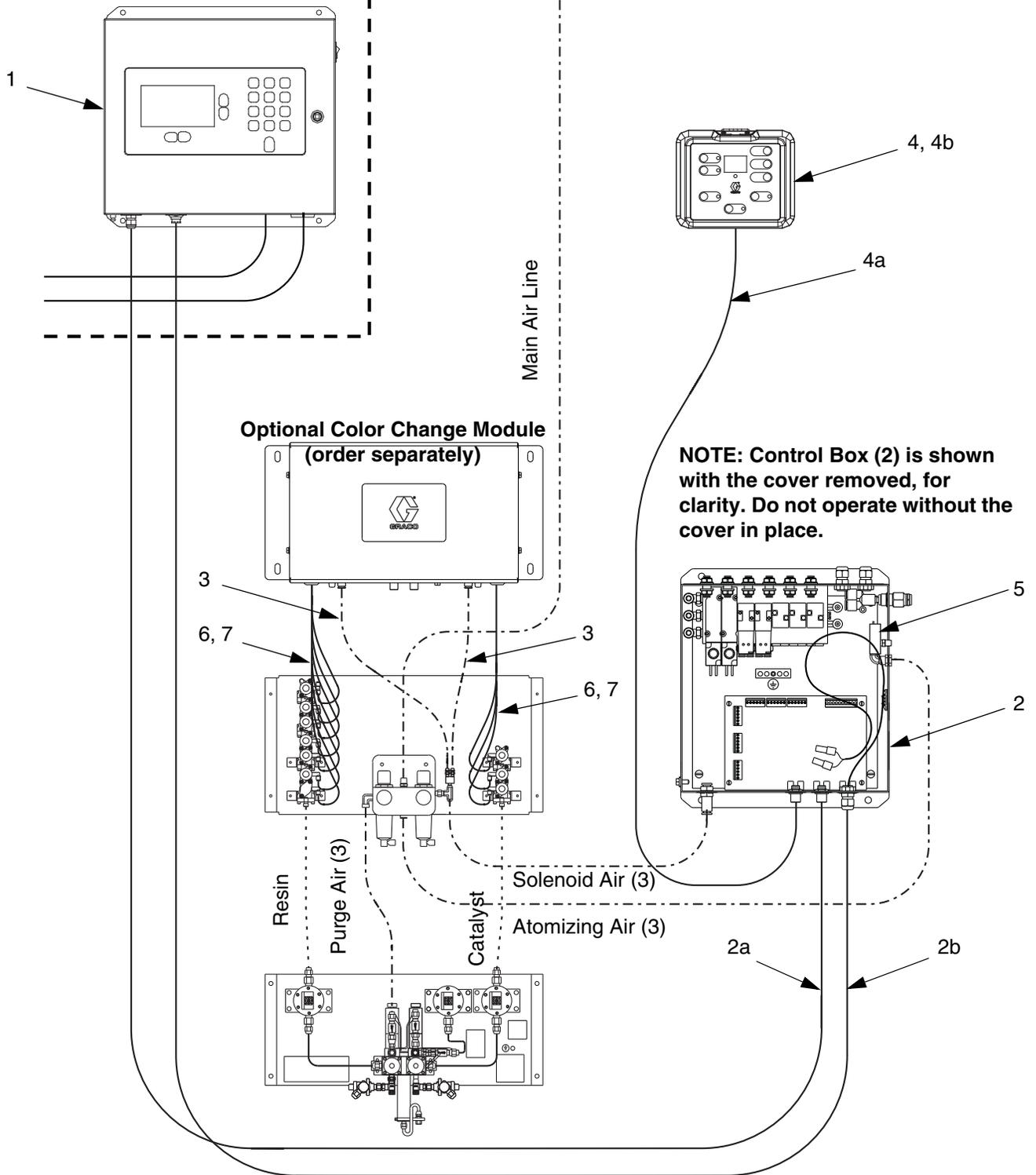
NOTE: Systems using color change require a color change module (not included). To install the color change module, see manual 312787.

NOTE: If your system includes gun flush box(es) or a RoboMix fluid panel, order 15V534 Gun Flush Box Interface Kit. See manual 313212 for instructions.

4. Connect a clean, dry, main air supply line to the air inlet of the air control. This air line supplies air to operate the gun, solenoids, and dispense valves.

NON-HAZARDOUS AREA

HAZARDOUS AREA



NOTE: Control Box (2) is shown with the cover removed, for clarity. Do not operate without the cover in place.

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FIG. 5. System Layout Drawing

Solenoid Connections

See FIG. 7, the **System Pneumatic Schematic** on page 23, and the **System Electrical Schematic** on page 24.

NOTE: The kit includes green tubing (6) and red tubing (7) for connections between the solenoid valves and the fluid valves. Cut all tubing to fit.

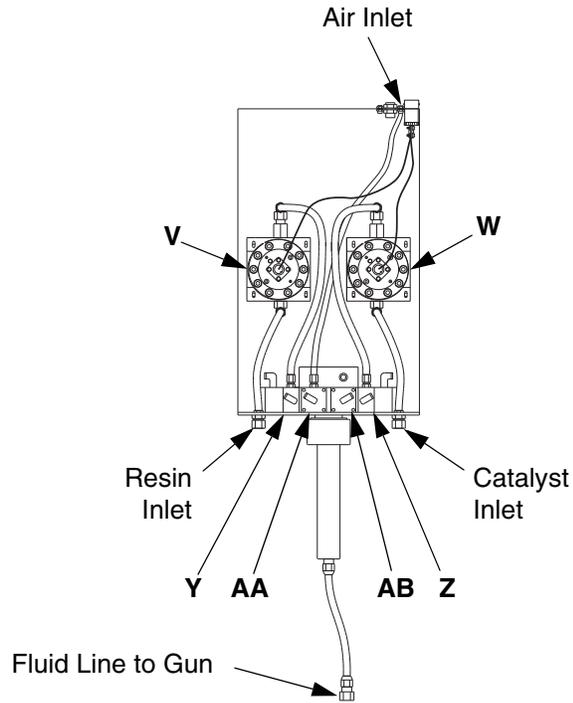
1. Install a length of green tubing (6) from the green tube fitting of each solenoid to the ON port of each valve.
2. Install a length of red tubing (7) from the red tube fitting of each solenoid to the OFF port of each valve.
3. Connect the solenoid wires as follows:

Solenoid	Connection Point
Dose Valve A	J9, pins 1 & 2
Dose Valve B	J9, pins 3 & 4
Purge Valve A	J14, pins 3 & 4
Purge Valve B	J14, pins 5 & 6
Dump Valve A (if present)	J15, pins 5 & 6
Dump Valve B (if present)	J8, pins 5 & 6

NOTE: For RoboMix Systems, run the green tubing (6) and red tubing (7) from the control box (2) solenoids through the air inlet of the RoboMix, then connect the tubes to the appropriate valve ports.

NOTE: Systems using color change require a color change module (not included). To connect the color change module solenoids with the existing color change valves, see manual 312787.

NOTE: Systems using dump valves require one 121324 Solenoid (not included) for each dump valve. See FIG. 7. Connect an air line from the dump valve solenoid to the valve air fitting.



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FIG. 6. RoboMix Connections

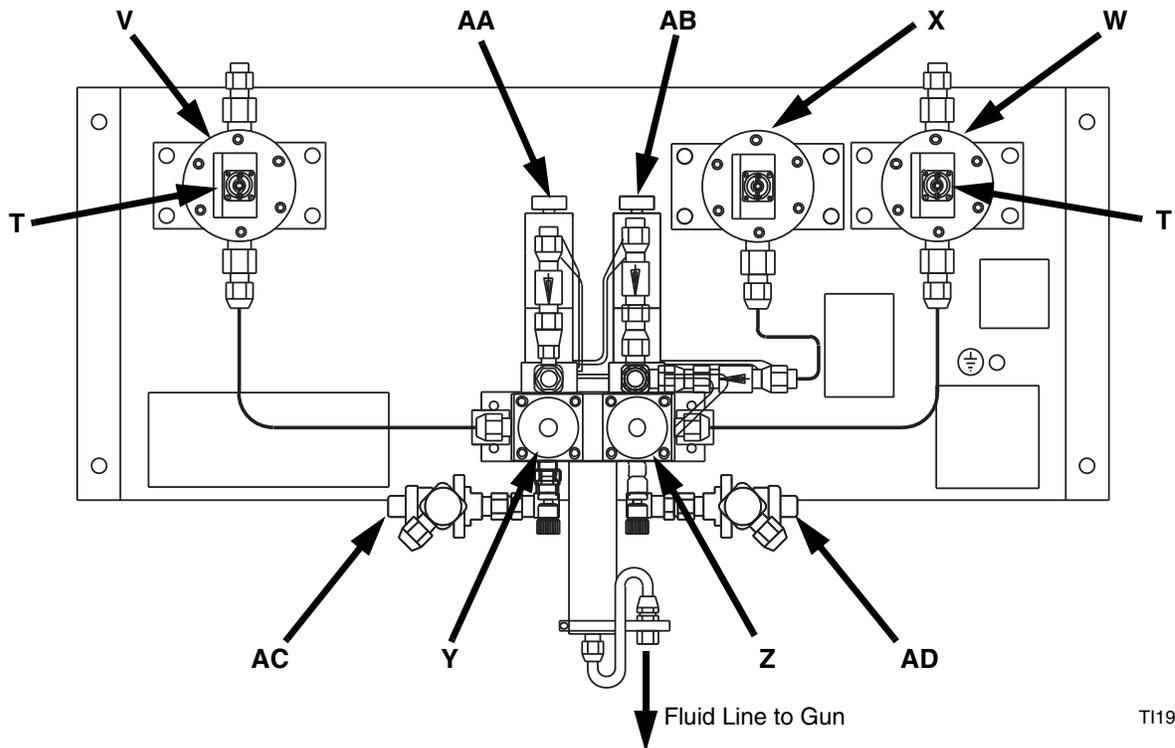
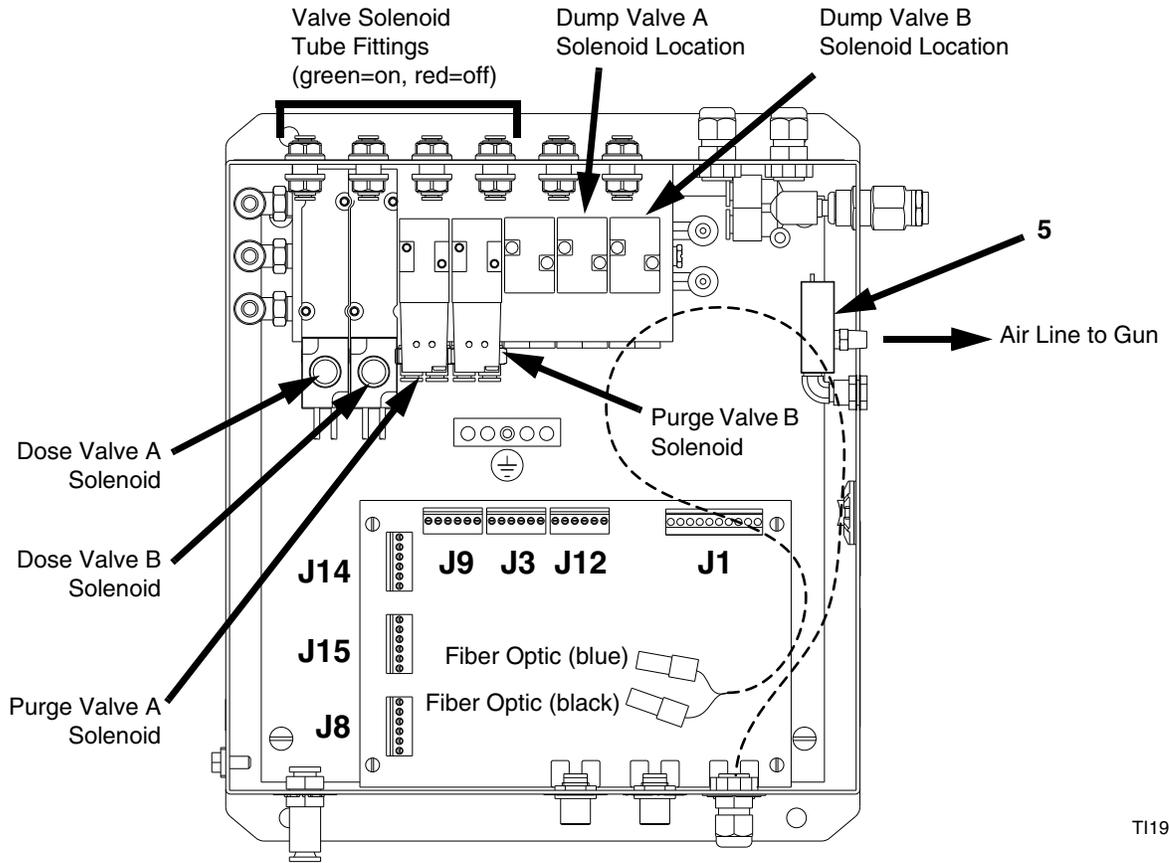


FIG. 7. Fluid Panel Control Box and Fluid Panel

Electrical

Requirements

<p>All electrical wiring must be completed by a qualified electrician and comply with all local codes and regulations.</p> <p>Enclose all cables routed in the spray booth and high traffic areas in conduit to prevent damage from paint, solvent, and traffic.</p>						

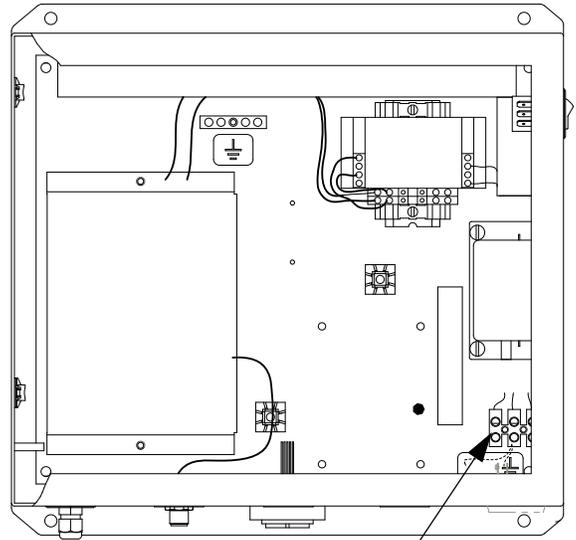
The ProMix operates with 85-250 VAC, 50/60 Hz input power, with a maximum of 2 amp current draw. The power supply circuit must be protected with a 15 amp maximum circuit breaker.

Not included with system:

- Power supply cord compatible to your local power configuration. Wire gauge size must be 8-14 AWG.
- The input power access port  is 22.4 mm (0.88 in.) diameter. It accepts a bulkhead strain relief fitting or conduit. See FIG. 9.

Connect Main Power

1. Provide power to the EasyKey. Install a bulkhead strain relief or conduit bulkhead through the EasyKey port . See FIG. 9.
2. See FIG. 8 and the **System Electrical Schematic** on page 24 for the L1, N, and ground wiring connections inside the EasyKey.
3. Ground the EasyKey to a true earth ground. See **Grounding**, page 20.



Input Power Terminal Block

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FIG. 8. Main Power Connection

Connect EasyKey to Fluid Station Control Box

There are two 50 ft (15.2 m) cables to route between the EasyKey and Fluid Station Control: the Fluid Station Power Cable and the Fiber Optic Cable.

1. Connect the appropriate Fluid Station Power Cable end to the EasyKey connector $\pm 1 | \overset{VDC}{\text{---}}$. See FIG. 9.
2. Connect the other cable end to the Fluid Station Control connector $\pm 1 | \overset{VDC}{\text{---}}$ (J10). See FIG. 10.
3. The Fiber Optic Cable is shipped from the factory attached to the EasyKey connector . See FIG. 9.

NOTE: If you need to detach the Fiber Optic Cable from the EasyKey, note how the cable is routed inside the enclosure. Ensure that the door can swing open and close without catching or pulling wires. Never cut the fiber optic cable. Cutting can damage the cable and will defeat the color-coded cable connections.

4. Route the opposite Fiber Optic Cable end through the Fluid Station strain relief connector . Do not route the cable with tight bends or kinks.

NOTE: The fiber optic cable has a minimum bend radius of 1.6 in. (40 mm).

5. Connect the blue and black cable connectors to the matching connectors on the fluid station circuit board. See FIG. 10. Insert the cable connectors until they bottom out (approximately ¼ in. [6 mm]), then tighten the threaded connector.

NOTICE

To avoid cracking the circuit board, do not over-tighten or cause excessive stress on the circuit board connector.

6. Tighten the strain relief connector .

Connect Booth Control to Fluid Station Control Box

Connect the cable from the Booth Control to the Fluid Station connector  (J7). See FIG. 10.

Meter Sensors and Cables

Install the new meter sensors (T) onto the existing flow meters (V, W). See FIG. 7.

Connect the flow meter cables from the meter sensors to the fluid board. See FIG. 10.

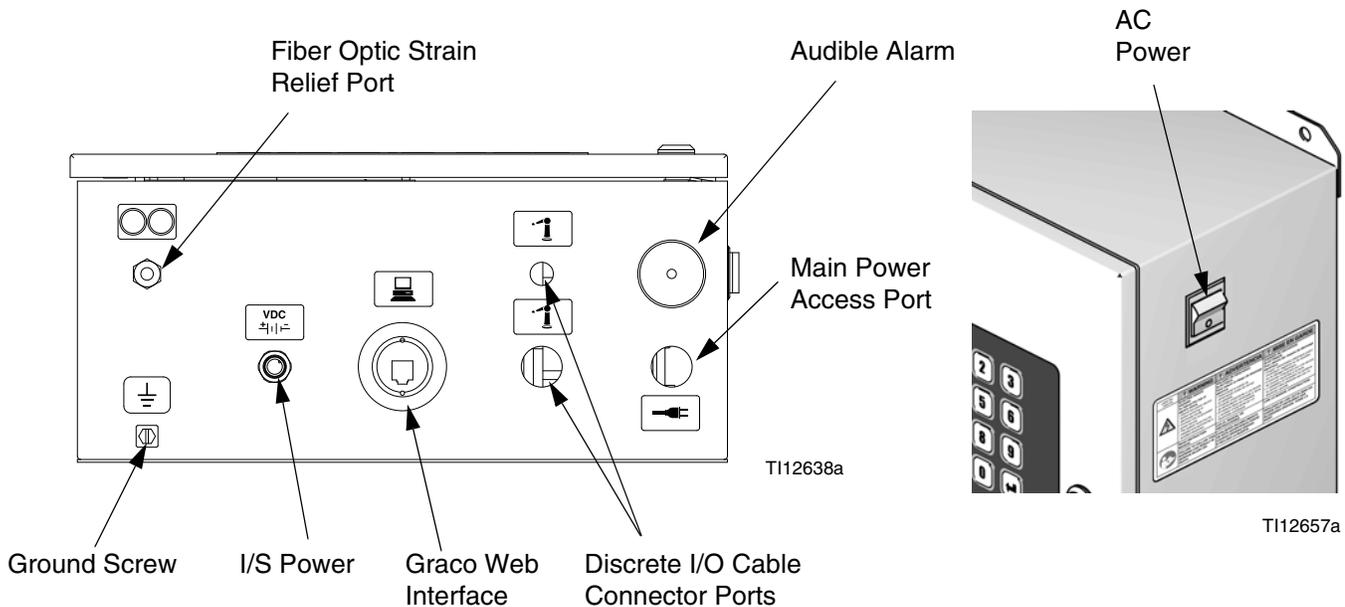


Fig. 9. EasyKey Connections and AC Power Switch

Fluid Station Control Board Switch Settings

On the 2KS fluid station control board, set switch S1 to ON (down) or OFF (up), as shown in FIG. 10.

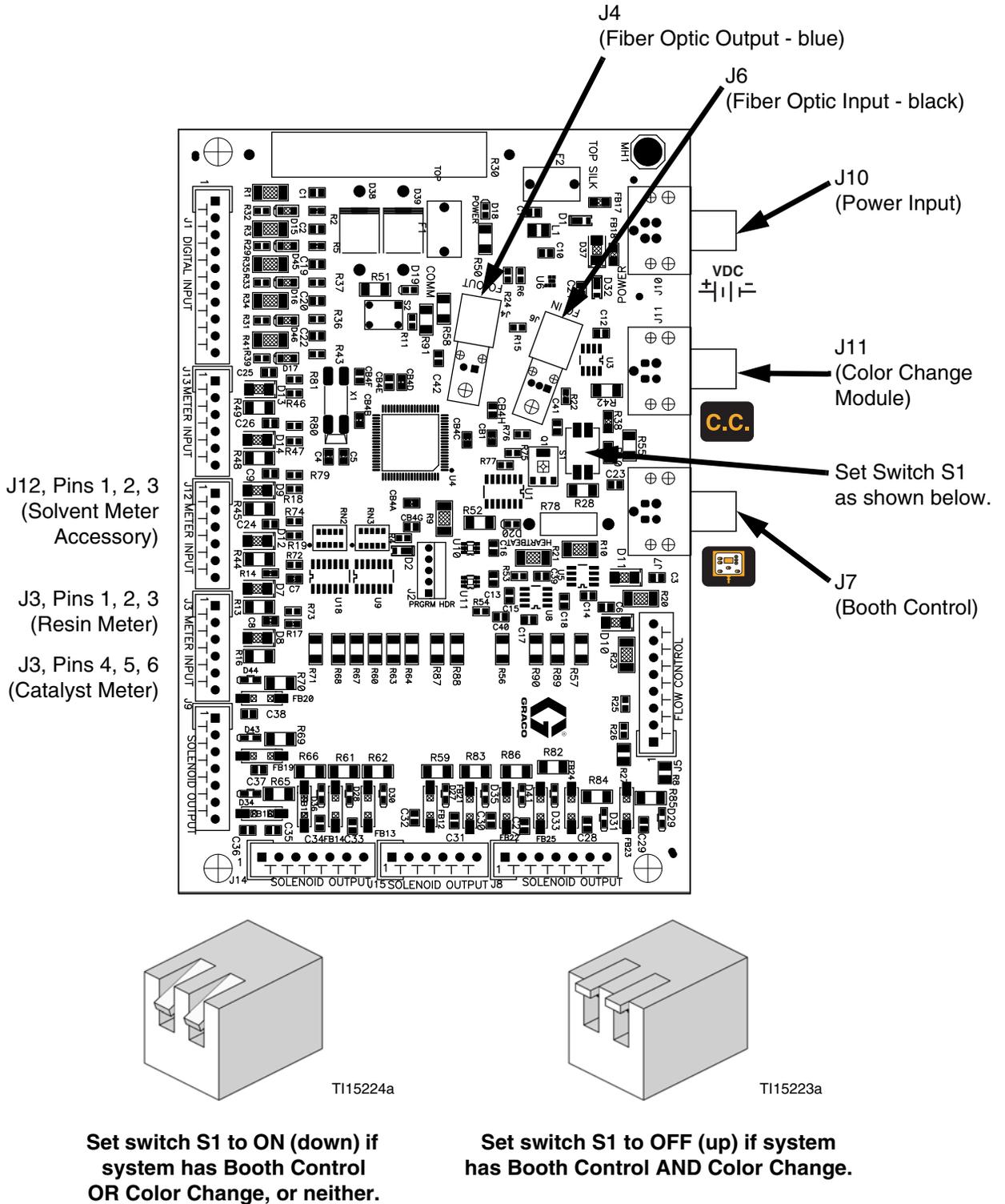


FIG. 10. Fluid Station Board Connections

Grounding

						
<p>Your system must be grounded. Read Warnings, page 4. For intrinsic safety, ground wires for the EasyKey, Fluid Station, Booth Control, and Gun Flush Box must all be connected to the same true earth ground. See FIG. 11, page 21.</p>						

Ground the ProMix system as instructed here and in the individual component manuals. A ground wire and clamp, part no. 223547, is available from Graco.

NOTE: Different ground points (unequal potential) may cause current to flow through component cables, causing incorrect signals.

EasyKey

Connect a ground wire from the EasyKey ground screw to a true earth ground. FIG. 11.

Booth Control

The Booth Control is grounded through the power cable connection to the fluid station. FIG. 11.

Gun Flush Box

Connect a ground wire from the Gun Flush Box ground lug to a true earth ground. FIG. 11.

Wall Mount Fluid Station

Connect a ground wire from the Wall Mount Fluid Station ground screw to a true earth ground. FIG. 11.

Color Change Module

Connect a ground wire from the Color Change Module ground screw to a true earth ground. A ground wire and clamp, part no. 223547, is available from Graco. FIG. 11.

Flow Meters

Connect the meter cables as shown in the **System Electrical Schematic Hazardous Area** on page 25. Failure to properly connect the shield may cause incorrect signals.

Feed Pumps or Pressure Pots

Connect a ground wire and clamp from a true earth ground to the pumps or pots. See pump or pressure pot manual.

Air and Fluid Hoses

Use grounded hoses only.

Spray Gun

Follow the grounding instructions in your gun manual.

Fluid Supply Container

Follow local code.

Object Being Sprayed

Follow local code.

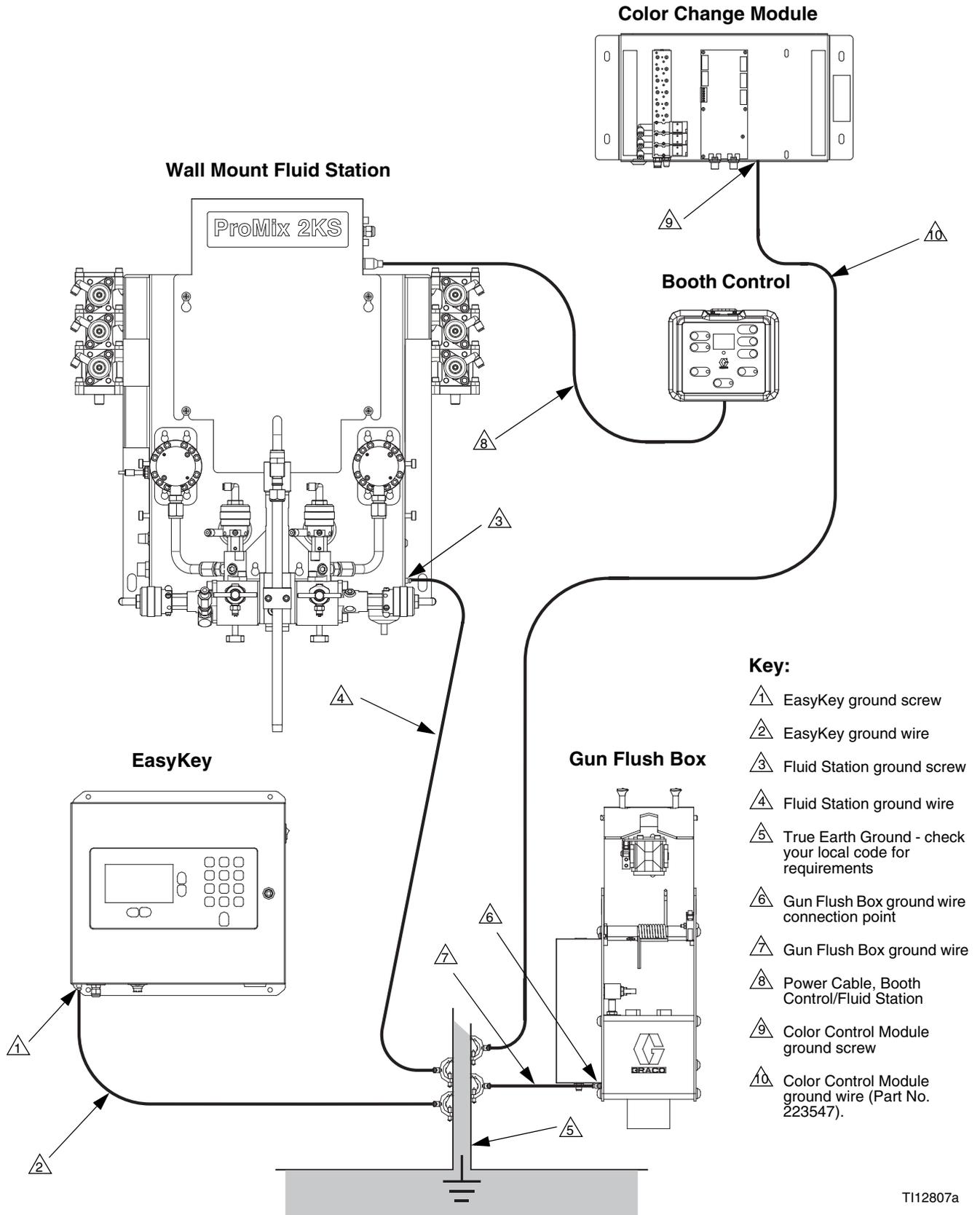
All Solvent Pails Used When Purging

Follow local code. Use only conductive metal pails/containers placed on a grounded surface. Do not place the pail/container on a nonconductive surface, such as paper or cardboard, which interrupts the grounding continuity.

Check Resistance

						
<p>To ensure proper grounding, resistance between ProMix components and true earth ground must be less than 1 ohm. Read Warnings, page 4.</p>						

Have a qualified electrician check resistance between each ProMix component and true earth ground. If resistance is greater than 1 ohm, a different ground site may be required. Do not operate the system until the problem is corrected.

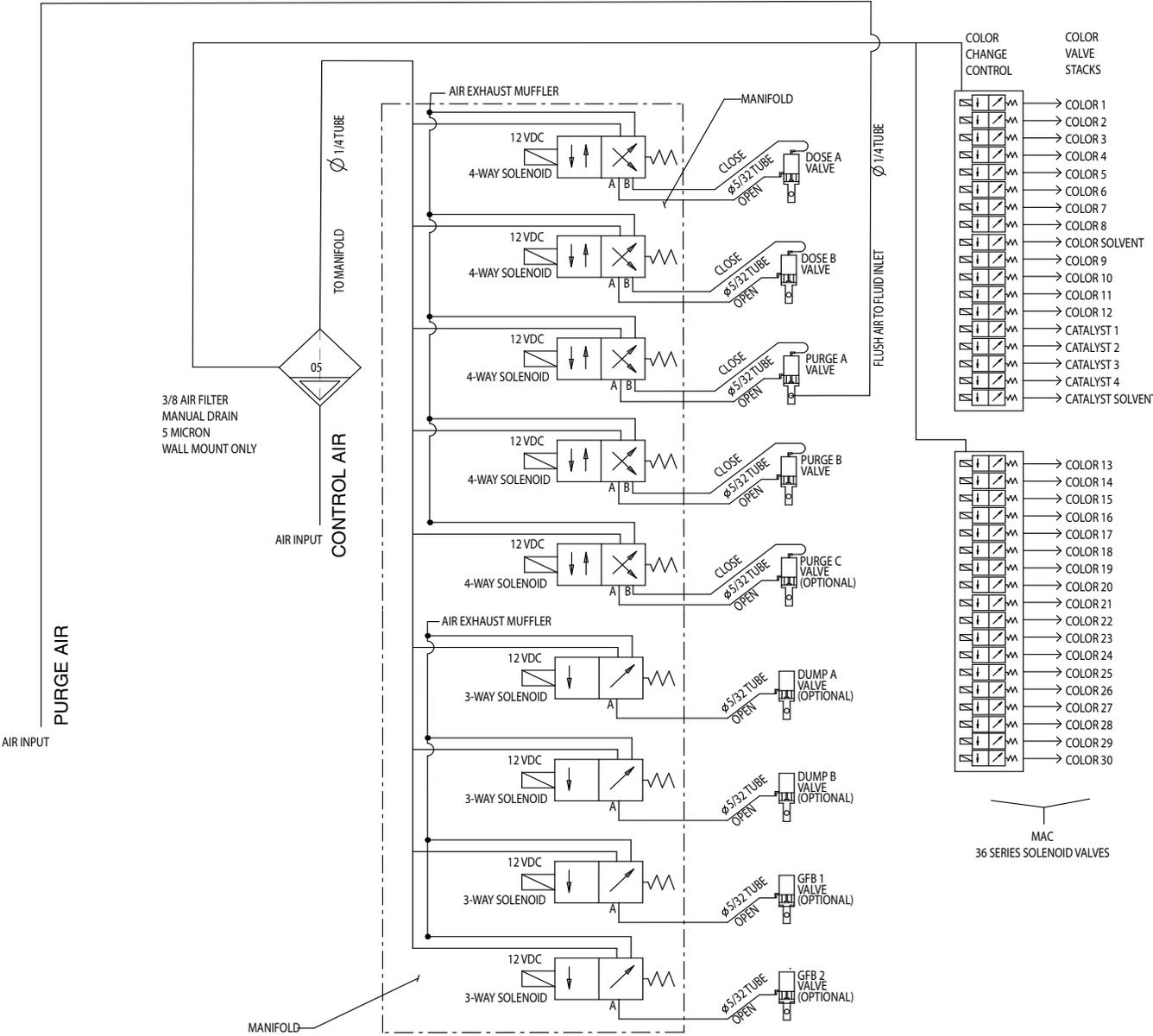


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FIG. 11: Grounding

Schematic Diagrams

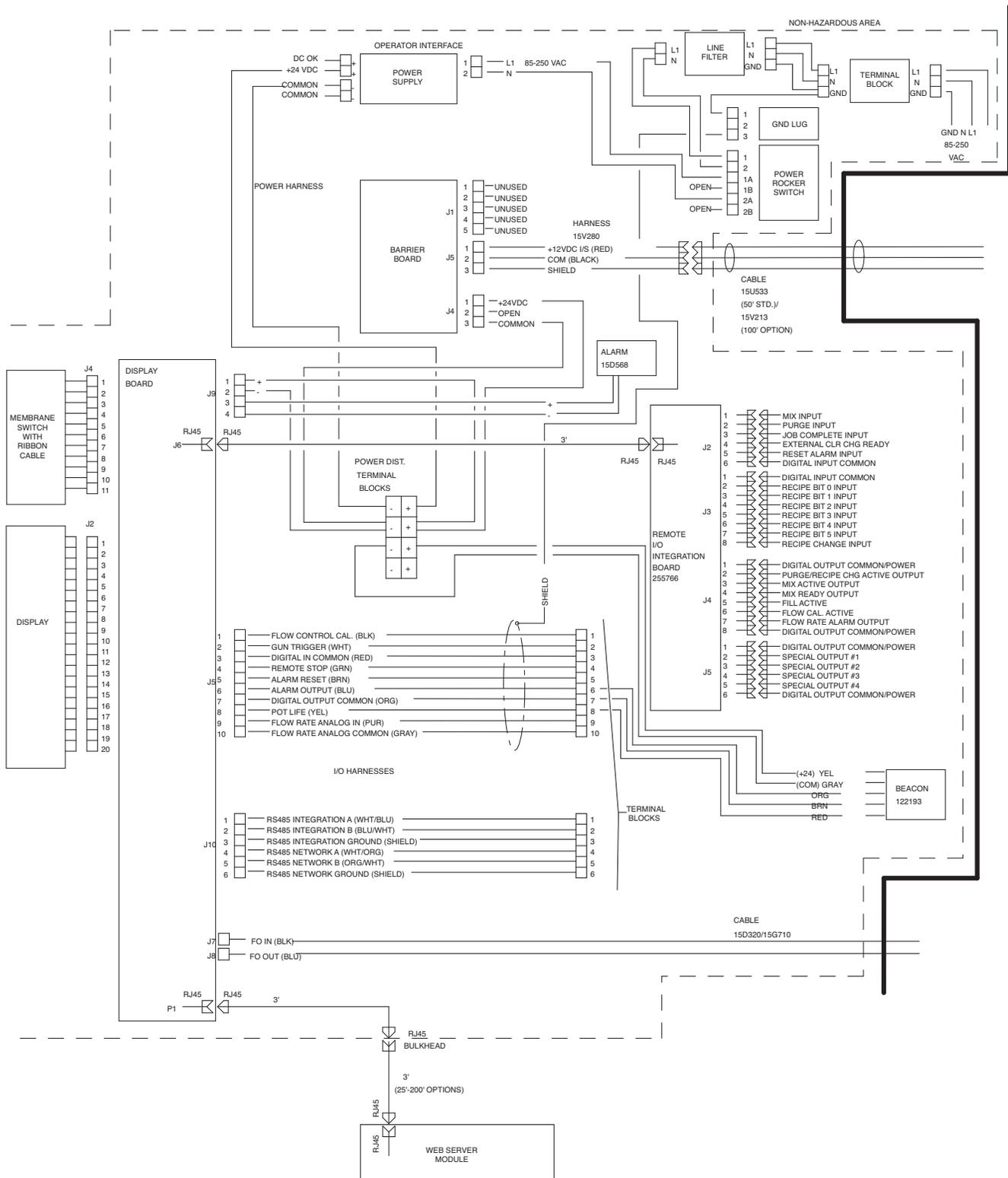
System Pneumatic Schematic



System Electrical Schematic

NOTE: The electrical schematic illustrates all possible wiring expansions in a ProMix 2KS system. Some components shown are not included with all systems.

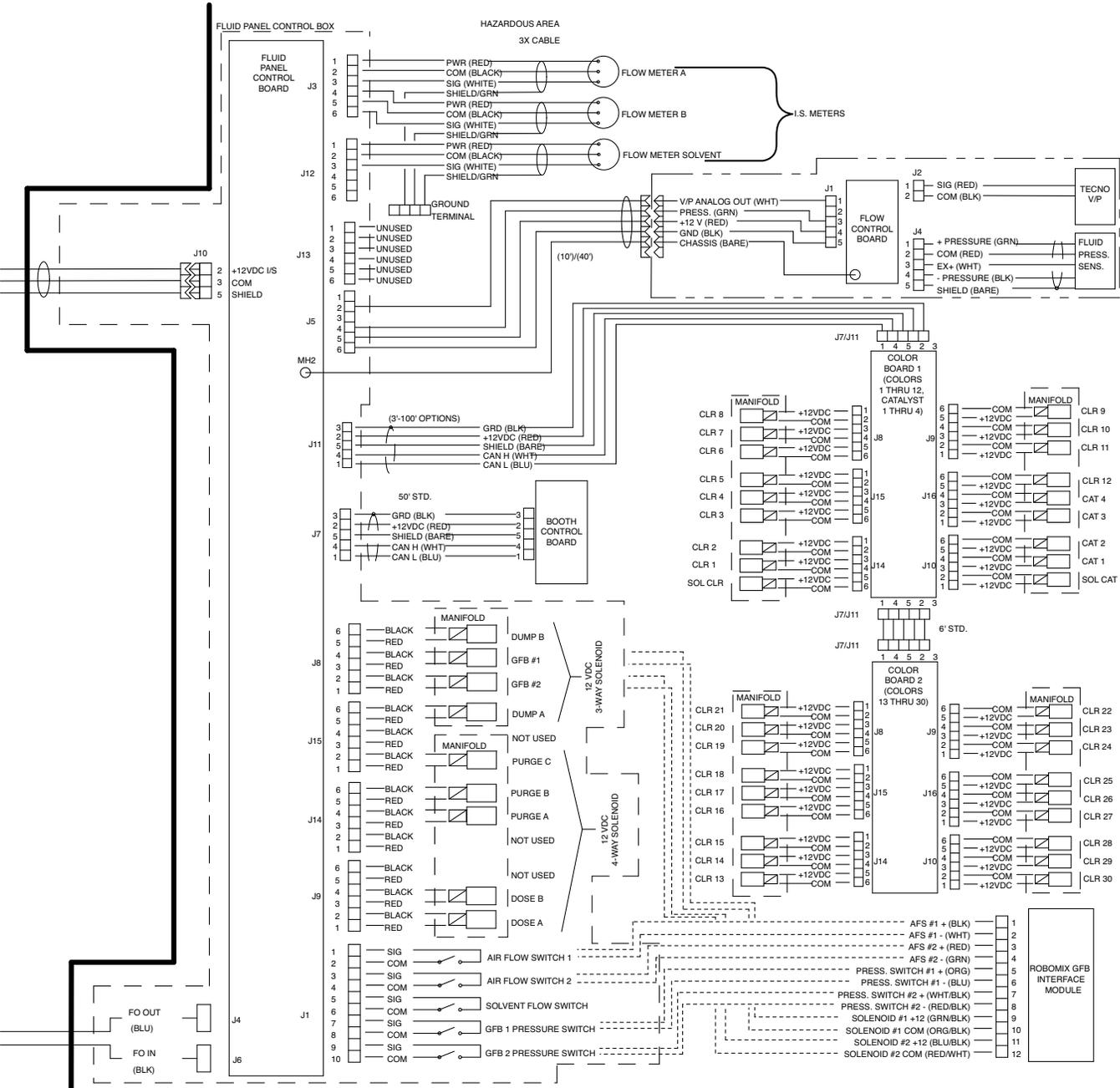
Non-Hazardous Area



System Electrical Schematic

NOTE: The electrical schematic illustrates all possible wiring expansions in a ProMix 2KS system. Some components shown are not included with all systems.

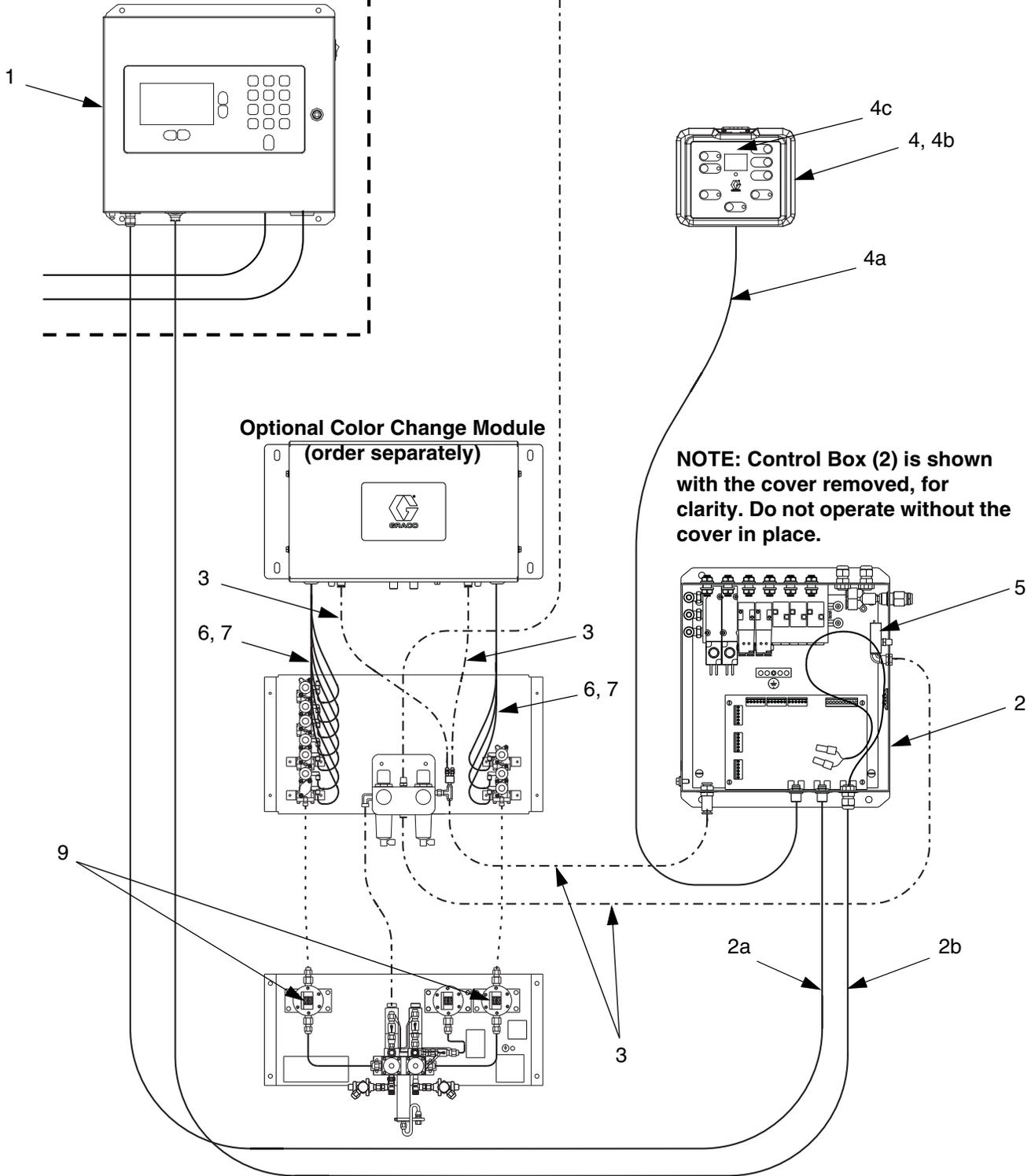
Hazardous Area



Parts

NON-HAZARDOUS AREA

HAZARDOUS AREA



TI19043a

Ref. No.	Part No.	Description	Qty
1	277869	CONTROL/DISPLAY, EasyKey; includes items 1a and 1b	1
1a▲	15W776	LABEL, warning	1
1b	15G569	LABEL, EasyKey inputs	1
2	262369	CONTROL BOX, fluid station; includes items 2a-2d	1
2a	15U533	CABLE, CAN, intrinsically safe; connect control box to EasyKey (1); 50 ft (15.25 m)	1
2b	15D320	CABLE, fiber-optic, twin; connect control box to EasyKey (1); 50 ft (15.25 m)	1
2c▲	15G809	LABEL, warning	1
2d▲	186620	LABEL, ground symbol	1
3	- - -	TUBING, 5/32 in. (4 mm) OD; nylon	100 ft (30.5 m)
4	15V350	BOOTH CONTROL; includes items 4a and 4b	1
4a	15U533	CABLE, CAN, intrinsically safe; connect booth control to control box (2); 50 ft (15.25 m)	1
4b	277853	BRACKET, mounting, booth control	1
4c	26A163	KIT, membrane repair	1
5	15T632	KIT, air flow switch	1
6	- - -	TUBE, nylon, green; for control air to turn valves on; 5/32 in. (4 mm) OD	A/R
7	- - -	TUBE, nylon, red; for control air to turn valves off; 5/32 in. (4 mm) OD	A/R
8	256580	CD, instruction manuals, ProMix 2KS (not shown); includes items 8a and 8b	1
8a	312775	MANUAL, installation, ProMix 2KS (not shown)	1
8b	312776	MANUAL, operation, ProMix 2KS (not shown)	1
9	249430	SENSOR, meter	2

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

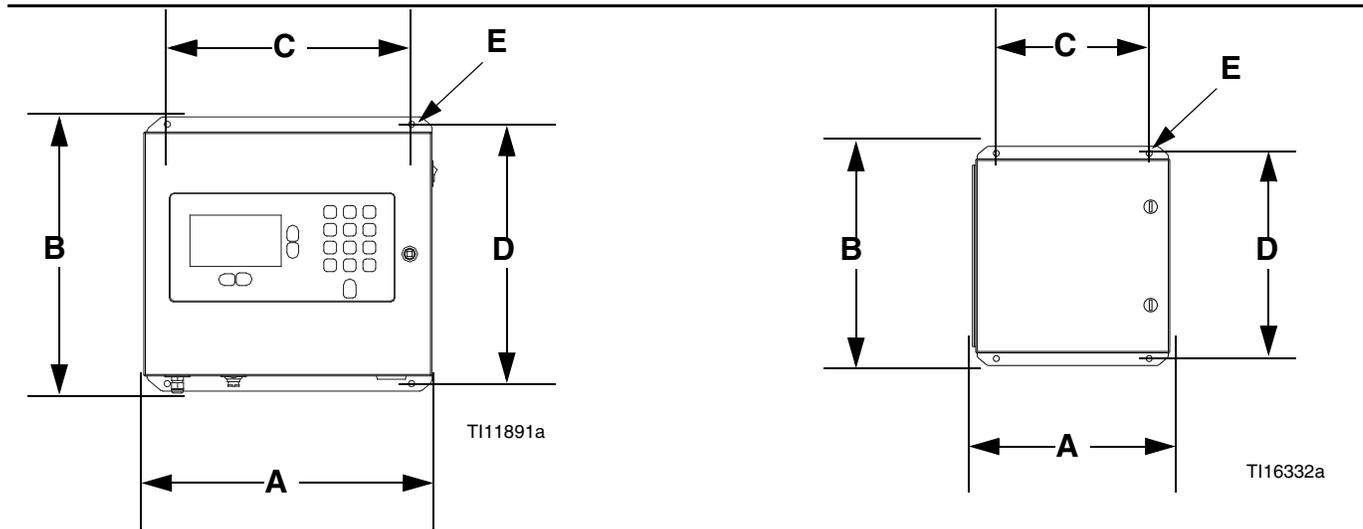
Parts labeled - - - are not available separately.

Dimensions and Mounting Hole Layouts

Module	A Overall Width in. (mm)	Overall Depth in. (mm)	B Overall Height in. (mm)	Mounting Dimensions, Width (C) x Height (D) in. (mm)	E Mounting Hole Size in. (mm)	Weight lb (kg)
EasyKey	14.0 (355.6)	6.6 (167.6)	13.5 (342.9)	12.0 x 12.75 (304.8 x 323.9)	0.3 (7.6)	22.2 (10.1)
Booth Control	7.2 (182.9)	3.0 (76.2)	6.0 (152.4)	none; see mounting bracket below	none	2 (0.91)
Booth Control Mounting Bracket	3.75 (95.3)	2.0 (50.8)	6.0 (152.4)	2.5 x 3.0 (63.5 x 76.2)	0.281 (7.14)	2 (0.91)
Fluid Panel Control Box	10.16 (258.0)	6.0 (152.4)	11.48 (291.6)	8.0 x 10.75 (203.2 x 273.0)	0.3 (7.6)	50 (22.7)

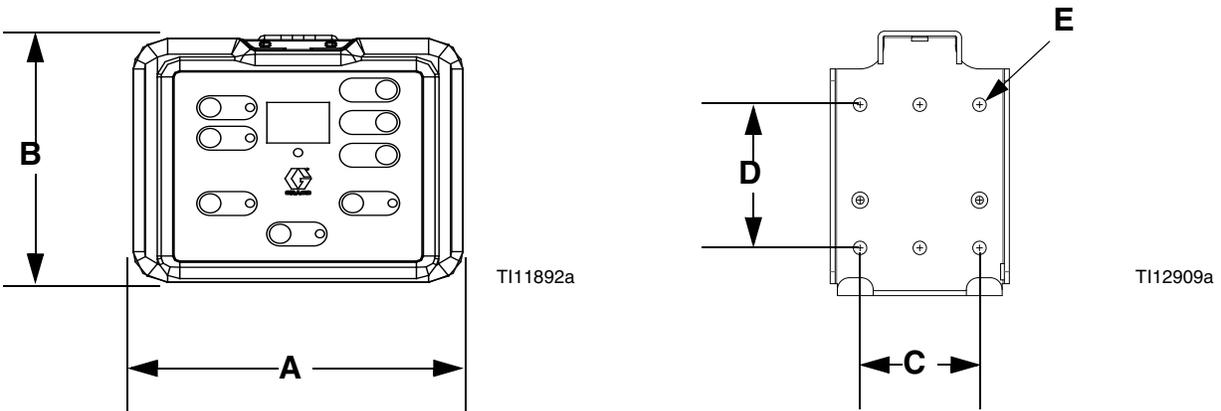
EasyKey

Control Box



Booth Control Module

Booth Control Bracket



Technical Data

Fluid specifications	Refer to your PrecisionMix II manual.
Maximum working air pressure	100 psi (0.7 MPa, 7 bar)
Air supply	75 - 100 psi (0.5 - 0.7 MPa, 5.2 - 7 bar)
Air filter inlet size	3/8 npt(f)
Air filtration for air logic and purge air (Graco-supplied)	5 micron (minimum) filtration required; clean and dry air
Air filtration for atomizing air (user-supplied)	30 micron (minimum) filtration required; clean and dry air
Mixing ratio range	0.1:1- 50:1*
On-ratio accuracy	up to ± 1%, user selectable
External Power Supply Requirements	85 - 250 Vac, 50/60 Hz, 2 amps maximum draw 15 amp maximum circuit breaker required 8 to 14 AWG power supply wire gauge
Operating temperature range	41- 122° F (5-50° C)
Environmental Conditions Rating	indoor use, pollution degree (2), installation category II
Noise Level	
Sound pressure level	below 70 dBA
Sound power level	below 85 dBA

* Dependent on programmed K-factor and application. The maximum allowable flow meter pulse frequency is 425 Hz (pulses/sec). For more detailed information on viscosities, flow rates, or mixing ratios, consult your Graco distributor.

See individual component manuals for additional technical data.

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Original instructions. This manual contains English. MM 3A2581

Graco Headquarters: Minneapolis

International Offices: Belgium, China, Japan, Korea

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS, MN 55440-1441 • USA

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