

ProMix[™] 2KS Two-Component Electronic Proportioning System



Increase Efficiency and Productivity!



Introducing Graco's new line of electronic proportioners!

ProMix® 2KS offers precise and reliable electronic proportioning for a broad range of solventborne, waterborne, and acid catalyzed materials. From entry level to upgraded applications, the ProMix 2KS provides flexibility and increased efficiency. With outstanding performance in one easy-to-use design, let ProMix 2KS enhance your finishing operation today.

Features

- Manual and automatic configurations
- Intrinsically safe fluid panels allow for integration into hazardous areas
- Single- or multi-colour and catalysts
- Accurate ratio assurance for superior finish quality
- Simple programming allows fast set-up and efficient process control
- Advanced web interface provides consolidated system management and reporting

Key Materials

- Solventborne epoxies and polyurethanes
- Waterborne epoxies and polyurethanes
- Acid catalyzed materials

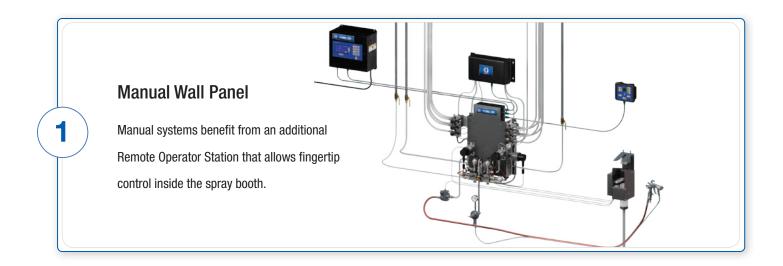
Why Electronic Proportioning?

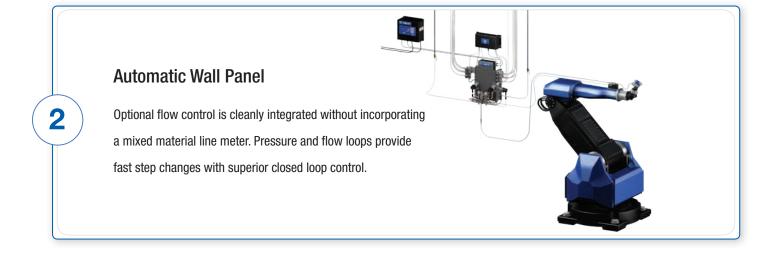
- Offers the highest degree of ratio assurance
- Provides critical process variable feedback
- Built in system safeguards
- Effective colour change solution
- Efficient material tracking and reporting

Three Systems in One

ProMix 2KS is available in a variety of system level configurations. Each one includes an EasyKey[™] display along with a Smart Fluid Panel. Colour and catalyst change is easily integrated with a plug-and-play control module and valves.

Use up to 30 colours and 4 catalysts.



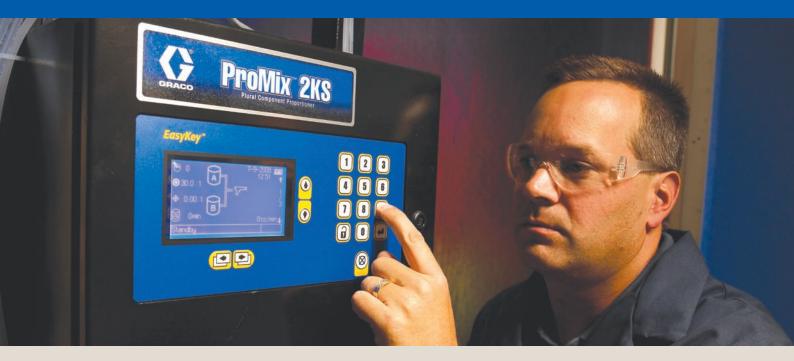


Automatic RoboMix Panel

This fluid panel can be easily integrated near the spray gun for a shorter mixed material line, faster colour changes and less waste. Also available with flow control.



EasyKey™ Display



Easy Operation

The independent touch pad keeps contaminants off the screen while the large keys allow for easy data entry.

Graco's EasyKey user interface offers simple navigation, multiple language capabilities and a high degree of reliability. The large LCD display screen is simple to read and operate during machine set up and process monitoring.

EasyKey with Display



Independent Keypad

EasyKey without Display



Network multiple ProMix 2KS systems to a single EasyKey with display

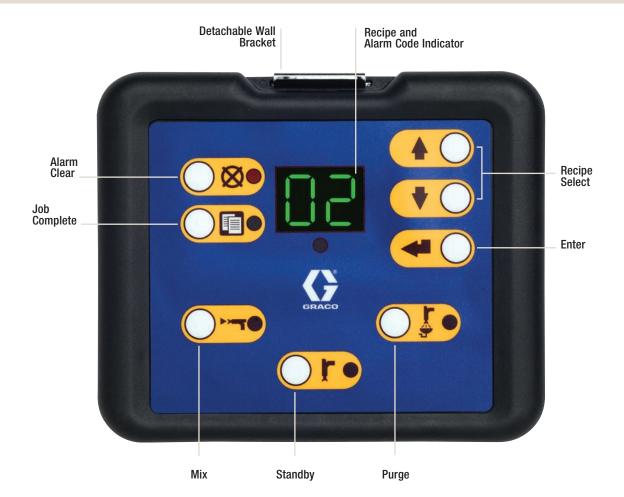
Remote Operator Station



Convenient Control

Perform all proportioning functions without leaving the spray booth.

The remote operator station can be mounted inside the spray booth or near the operator for quicker response times. The station offers easy-to-use controls for mixing, standby, purging, reading/clearing alarms, inputting job complete and recipe select functions.



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Simplicity with Unmatched Functionality

Wall & RoboMix Fluid Panel Features

Productive Panels

Intrinsically safe fluid panels offer increased proportioning and flushing functionality, resulting in improved process performance.

Versatile Dosing

Multiple sequential dose sizes allow the system to meet a broad range of applications without sacrificing performance and quality. Dynamic dosing provides additional proportioning technology to meet unique applications needs.

On-Ratio Performance

Volume based dosing provides exceptional ratio accuracy across varying flow rates or gun triggering conditions. On-the-fly monitoring and compensation enhance performance and finish quality.

Consistent Mix Quality

Optimized mix chamber hardware, along with high-speed processors and dispense valves, generate precise performance and consistent, high quality mixed material.

Fast Colour Change with Reduced Waste

New fluid manifold design reduces material volume and streamlines fluid porting for cleaner flushing. Manifold dump valves allow simultaneous purging and loading – reducing colour change time and providing better waste containment.

Wall Panel

- Up to 30:1 mix ratio for a variety of applications
- Up to 275.6 bar (4000 psi) working pressure for single colour and catalyst, supports all spray technologies
- Supports two manual spray guns and gun flush boxes



RoboMix

- Up to 30:1 mix ratio for a variety of applications
- Up to 17.2 bar (250 psi) working pressure
- Lightweight, compact design allows easier integration closer to the spray gun
- Can be interfaced with manual spray guns



Fluid Manifold



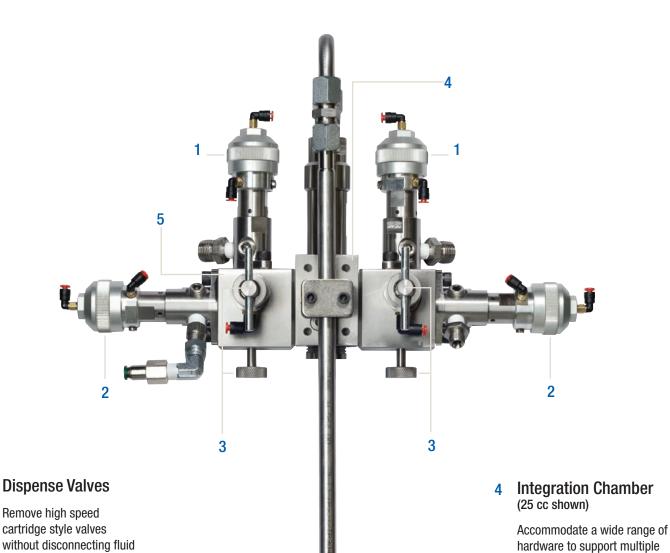




10 cc Integrator



Dynamic Dosing



2 Manifold Flush Valves

lines for easier serviceability.

Flush mixed material without wasting premixed resin and catalyst. Add a third valve to the resin side for enhanced flushing, especially with waterborne materials.

3 Shutoff and Sample Valves

Ensure accurate volume measurements for meter calibrations and ratio checks with positive shutoff and convenient sampling.

5 Fluid Porting

needs.

Compact, low volume design with no material dead spots, provide faster flushing time and less waste.

dose size options. Optimizes fluid manifold for particular application

Expanded Functionality

Complete Your System!

Today's demanding applications require more than just precise and reliable proportioning from a ProMix 2KS.

Graco offers a variety of flow meter technologies and accessories that will further enhance your finishing operation.

G3000 meter

Flow Meters

- · Complete line of spur gear, helical gear, and non-intrusive Coriolis meters
- Supports a broad range of material types and physical characteristics

Intrinsically Safe Colour and Catalyst Change Module

- Provides easy and flexible installation without running long pneumatic lines
- Accommodates future colour and catalyst needs with upgradable module

Gun Flush Box

- Automated flushing system for manual spray guns
- · Eliminates manual gun triggering for more accurate flushing and filling, and less waste

Integrated Flow Control

- Eliminates a long pneumatic control line and associated lag with intrinsically safe control module
- Produces quick responses and superior process control with on-board electronics and control hardware
- Provides accurate and consistent flow control for increased material savings

Advanced Web Interface

- Perform quick and easy system configuration and recipe set-up
- Offers convenient process monitoring and streamlines data gathering and reporting
- Manages operations more efficiently by networking multiple ProMix 2KS systems to a single PC

Communication Gateway

- Provides network integration for automatic systems
- Offers integration flexibility with multiple protocol capabilities
- · Reduces installation time with quick plug-and-play set up



Coriolis meter



Colour Change Module



Low Pressure Colour Stack







Gun Flush Box

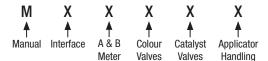
Regulator Module

Technical Specifications

Air filtration					
Air logic (Graco supp Air purge (user supp	olied)				5 micron 30 micron clean/dry minimum of 30 micron clean/dry
Mix ratio range Sequential dosing					0.1:1 to 50:1
					up to $\pm 1\%$ minimum (user selectable)
					up to ±1% minimum (user selectable) imponent: solvent and waterborne paints;
					varnishes; moisture sensitive isocyanates
Fluid filtration					100 mesh min
Flow meters:					
METER	ТҮРЕ		MAX PRESSURE	FLOW RANGE	VISCOSITY
G250	Spur Gear		17.2 bar (250 psi)	75-3800 cc/min	20-3000 cps
G250HR	Spur Gear		17.2 bar (250 psi)	38-1900 cc/min	20-3000 cps
G3000	Spur Gear		275 bar (4000 psi)	75-3800 cc/min	20-3000 cps
G3000HR	Spur Gear		275 bar (4000 psi)	38-1900 cc/min	20-3000 cps
HG6000	Helical Gear		413 bar (6000 psi)	50-7500 cc/min	30-100,000 cps
1/8" Coriolis	Single Tube		158 bar (2300 psi)	20-3800 cc/min*	0.1-3000 cps
3/8" Coriolis	Single Tube		158 bar (2300 psi)	50-3800 cc/min*	0.1-3000 cps
S3000 (Solvent Meter)	Oval Gear		275 bar (4000 psi)	100-3000 cc/min	0.5-1000 cps**
Flow control regulat Low pressure colou High pressure colou	orr change valvesr change valves				
					ed, 8 to 14 AWG power supply wire gauge
Operating temperature ra	nge				5 to 50°C (41 to 122°F)
·					below 70 dBA
					below 85 dBA omer, tungsten carbide with nickle binder
Weight				r con, r rr z, pornacrociaca	omor, tangoton oarbido with motito bindor
EasyKey display Remote operator sta Wall fluid panel (no RoboMix fluid panel	ation meters) (G250 meters included)				9.8 kg (21.75 lb) 0.43 kg (0.95 lb) 22.7 kg (50 lb) 14.3 kg (31.6 lb) 1.8 kg (4 lb)
					Europe - Zone 0 Ex ia IIA T3/ATEX II2G T3
Environmental condition r	rating			indoor use, p	ollution degree (2), installation category II
Related Instruction Ma		040704	Florid Mile Manuffeld	040700	Down Value and Third Down Value Vile
	al System Installation al System Operation	312781 312782	Fluid Mix Manifold Dispense Valve	312786 312785	Dump Valve and Third Purge Valve Kits Network Communication Kits
	al System Repair-Parts	312783	Colour Change Valve Stacks	308778	G3000/G3000HR/G250/G250HR Flow Meter
	natic System Installation	312787 312784	Colour Change Module Kit Gun Flush Box Kits	310696	Coriolis Flow Meter
	natic System Operation natic System Repair-Parts	312784	Gun Air Shutoff Kit	313212 313290	Gun Flush Box Integration Kit Floor Stand Kit

Ordering Information

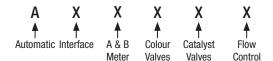
Manual Wall Panel



Interface	A & B Meter	Colour Valves*	Catalyst Valves	Applicator Handling
M D = EasyKey v LCD Displ E = Multi Fluid Control Bo No LCD Di	ay 1 = G3000 A & B Station 2 = G3000HR A & B X, 3 = 1/8" Coriolis A & G3000 B	B 6 = 4 Colours HP	or) 0 = No Valves (Single Catalyst) 1 = 2 Catalysts LP 2 = 4 Catalysts LP 3 = 2 Catalysts HP	1 = 1 AFS 2 = 2 AFS 3 = 1 AFS with 1 GFB 4 = 2 AFS with 2 GFB

^{*}Order additional low pressure valves or other high pressure valve configurations as kits (see accessories)

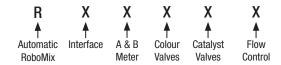
Automatic Wall Panel



	Interface	A & B Meter	Color Valves*	Catalyst Valves	Flow Control
A	D = EasyKey with LCD Display E = Multi Fluid Station Control Box, No LCD Display	0 = No Meter 1 = G3000 A & B 2 = G3000HR A & B 3 = 1/8" Coriolis A & G3000 B 4 = G3000 A & 1/8" Coriolis B 5 = 1/8" Coriolis A & G3000HR B 6 = G3000HR A & 1/8" Coriolis B 7 = 1/8" Coriolis A & 1/8" Coriolis B	0 = No Valves (Single Colour) 1 = 2 Colours LP 2 = 4 Colours LP 3 = 7 Colours LP 4 = 12 Colours LP	0 = No Valves (Single Catalyst) 1 = 2 Catalysts LP 2 = 4 Catalysts LP	N = No Y = Yes

^{*}Order additional low pressure valves or other high pressure valve configurations as kits (see accessories)

Automatic RoboMix Panel



R D = EasyKey with LCD Display E = Multi Fluid Station Control Box, No LCD Display Control Box, No LCD Display D = No Meter 0 = No Valves (Single Color) 1 = 2 Colours LP 1 = 2 Catalysts LP 2 = 4 Catalysts LP 2 = 4 Catalysts LP 3 = 7 Colours LP 4 Catalysts LP		Interface	A & B Meter	Color Valves*	Catalyst Valves	Flow Control
4 = 12 Colours LP	R	LCD Display E = Multi Fluid Station Control Box,	1 = G250 A & B	1 = 2 Colours LP 2 = 4 Colours LP	1 = 2 Catalysts LP	

^{*}Order additional low pressure valves as kits (see accessories)

Accessories

		its

Contains one flow meter, cable, and hardware

15V804 G3000 Flow Meter 15V827 G3000HR Flow Meter 15V820 HG6000 Flow Meter 15V806 1/8" Coriolis Flow Meter 258151 3/8" Coriolis Flow Meter 15V807 S3000 (Solvent) Flow Meter

Low Pressure Colour Change Kits

Contains colour valves and solenoid control module

256581 2 Colour 256582 4 Colour 256583 7 Colour 256584 12 Colour 256585 2 Colour and 2 Catalyst 256586 4 Colour and 2 Catalyst 4 Colour and 4 Catalyst 256587 256588 7 Colour and 2 Catalyst 256589 7 Colour and 4 Catalyst 256590 12 Colour and 2 Catalyst 256591 12 Colour and 4 Catalyst 256592 13-18 Colours 256593 13-24 Colours 256594 13-30 Colours 256595 0 Colours and 2 Catalysts

High Pressure Colour Change Kits

Contains colour valves and solenoid control module

256596 2 Colour 256597 4 Colour 256598 7 Colour 12 Colour 256599 2 Colour and 2 Catalyst 256600 4 Colour and 2 Catalyst 256601 4 Colour and 4 Catalyst 256602 7 Colour and 2 Catalyst 256603 7 Colour and 4 Catalyst 256604 256605 12 Colour and 2 Catalyst 12 Colour and 4 Catalyst 256606 13-18 Colours 256607 13-24 Colours 256608 256609 13-30 Colours 256610 0 Colours and 2 Catalysts

Valve Kits

Contains valve, solenoid, and hardware 15V821 Wall Panel Dump Valve

15V354 Wall Panel 3rd Flush Valve 15V822 RoboMix Panel Dump Valve 15V202 RoboMix Panel 3rd Flush Valve

15V077 Stainless Steel Needle High Pressure Valve

15V737 Lubrication Cup

High and Low Pressure Valve
Supplies lubrication to the valve

needle and seal

15U932 Carbide Seat
High Pressure Valve

Dosing Kits

Contains fluid manifold hardware

15V034 10 cc Sequential Dosing

15V033 25 cc Sequential Dosing

15V021 50 cc Sequential Dosing

24B618 100 cc Sequential Dosing

15U955 0 cc Dynamic Dosing

15V534 Manual Gun Interface Kit

RoboMix Panel Kits

Used to interface up to two air flow switches and two gun flush boxes to a RoboMix Panel. Order air flow switch or gun flush box kits separately. 15V267 RoboMix Panel Ratio Check Kit

Communication Kits

15V825 Discrete I/O Integration Board
Contains inputs and outputs for controlling
automatic integration and special output
functionality

15V331 Ethernet IP Gateway Assembly
15V963 DeviceNet Gateway Assembly
15V964 Profibus Gateway Assembly
Network communication assembly for automatic integration. Contains gateway module, power supply, and enclosure.
15X492 Ethernet IP Gateway Module

15X492 Ethernet IP Gateway Module
15V966 DeviceNet Gateway Module
15V965 Profibus Gateway Module
Network communication module for

automatic integration. Contains gateway module only.

15W023 Communication + I/O Harness Kit
15V337 Advanced Web Interface with Eight Port Hub
Contains web server module, power supply

Contains web server module, power supply, eight port hub, and enclosure

15V336 Eight Port Ethernet Hub
Contains eight port hub, power supply,

and enclosure

121998 7.5 m (25 ft) CAT V Cable

121999 15 m (50 ft) CAT V Cable

15V842 30 m (100 ft) CAT V Cable

15V843 60 m (200 ft) CAT V Cable

Cables

15V213 30 m (100 ft) Power Cable 15G710 30 m (100 ft) Fiber Optic Cable 12 m (40 ft) Flow Control Extension Cable 15U977 15U532 0.9 m (3 ft) CAN Cable 15V205 1.8 m (6 ft) CAN Cable 15V206 3 m (10 ft) CAN Cable 15V207 4.5 m (15 ft) CAN Cable 15V208 7.5 m (25 ft) CAN Cable 15U533 15 m (50 ft) CAN Cable

Miscellaneous Kits

15V826 Gun Flush Box Kit
Contains gun flush box and
control hardware

570123 Gun Flush Box Wall Mount Kit
15V823 Gun Air Shutoff Kit
Used to automatically shut off gun
atomizing air during flush and fill sequences
without a gun flush box

15T632 Air Flow Switch Kit 15V350 Remote Operator Station Kit 15V256 Manual to Automatic Conversion Kit

15X247 Auto Dump Kit
Used to incorporate an auto dump feature
without a gun flush box. Contains a dump
valve. solenoid, and hardware

949122 Clear Plastic Static Mixer 15V536 Solvent Flow Switch Used to detect solvent flow during

flush sequences

15W034 Alarm Light for Manual Systems122193 Alarm Light for Automatic Systems

15V950 Floor Stand
Contains provisions for mounting a wall fluid panel, EasyKey display, and colour

change module.

197902 EasyKey Paint Shields
Includes 10 disposable clear plastic shields
to cover the EasyKey display and shield it

from paint overspray

15M483 Remote Operator Station Paint Shields

Includes 10 disposable clear plastic shields to cover the remote operator station display and shield it from paint overspray

15W600 Wall Panel Fluid Manifold Cover

Gun Flush Box Gun Holders

198787 Graco Pro Xs2 Graco Pro Xs3, Pro Xs4 198405 Graco PRO 3500, 3500hc, 4500 196768 Graco AirPro Air Spray 15T646 196769 Graco Delta Air Spray 196770 Graco Alpha 196771 Graco Alpha Plus, Alpha Plus RAC 15G093 Graco G15

15G346 Graco G40, G40 RAC



ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

GRACO LOCATIONS

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Graco is certified ISO 9001.

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