

# ARO<sup>®</sup>

## FLUID MANAGEMENT SOLUTIONS

BATCHING | FLOW CONTROL



# Control your pumps. Control your costs. Easily. Quickly. *Intelligently.*

Introducing fluid management solutions that help optimize your costs and production time.

## *Imagine...*

- ▶ Increasing productivity through reduced operator-monitoring of dispensing equipment.
- ▶ Full-featured multi-pump control in a simple-to-use and easy-to-install package.
- ▶ Safer control and monitoring of your processes with remote operation capabilities.

It's now possible with fluid management solutions from ARO, the global leader in straightforward, reliable fluid products and systems.

**Fluid Management Solutions from ARO combine the new ARO Controller with our EXP Series Electronic Interface pumps.**

*It's Fluid Intelligence at work.*



Throughout the past eight decades, ARO fluid management products have made businesses more competitive, cost-efficient and performance driven.

Contact us today with any of your fluid needs.

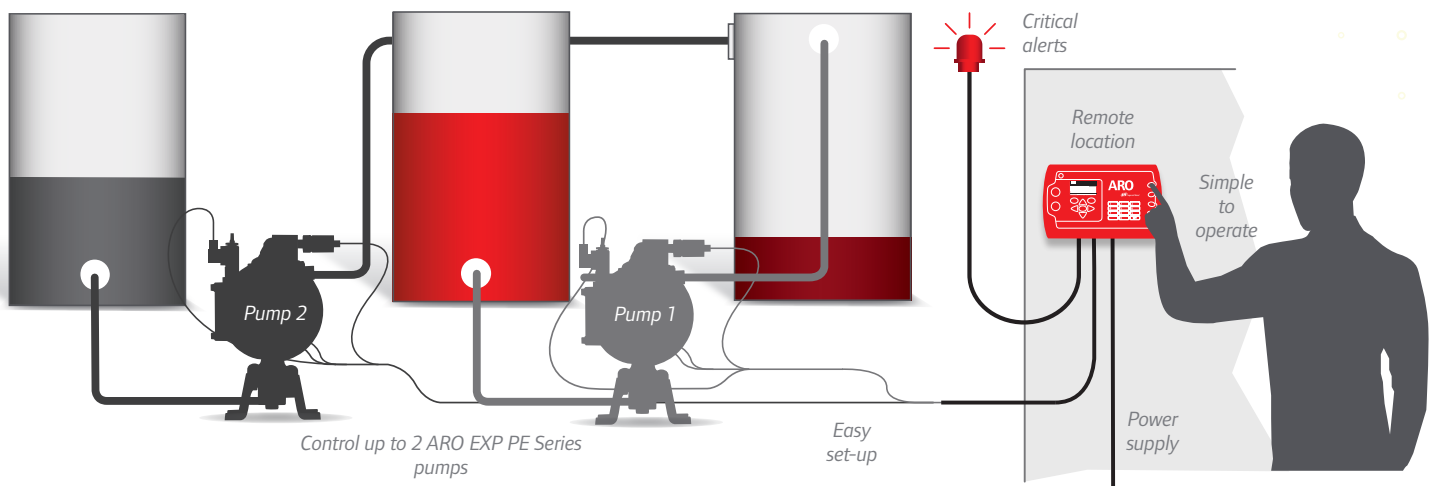
 [www.AROzone.com](http://www.AROzone.com)

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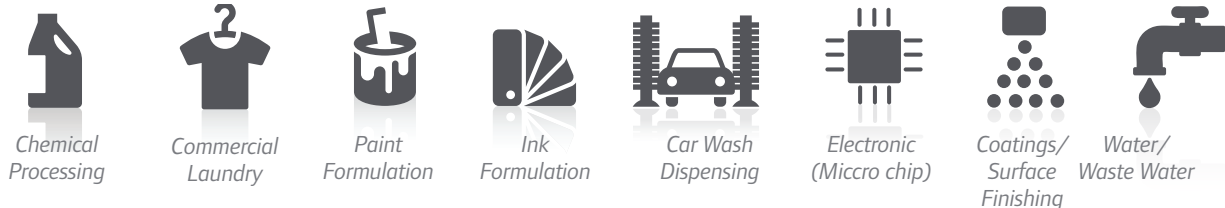
# Migrate to a smart touch and walk away system that helps optimize your costs and control your pumps.

- ▶ Closed loop system achieves dispensing repeatability within 1%
- ▶ Safe control and monitoring via remote operation
- ▶ Multi-pump control for accurate two part batching processes
- ▶ Controller accepts leak detection, liquid level sensing and proportional control
- ▶ Remote triggers and alerts send operating data, can perform auto shut-down, and keep you up-to-date on maintenance needs
- ▶ Seamless integration between the ARO® Controller and EXP Series Electronic Interface pumps



## Markets and Applications

- ▶ The ARO controller and electronic interface pumps are ideal for a wide array of applications such as batching, and container and tank fill in numerous markets.



Contact your distributor, or e-mail the experts at [arohotline@irco.com](mailto:arohotline@irco.com) to discuss your custom solution.



The ARO Controller, paired with one or more compatible EXP Electronic Interface pumps, completes the system to provide enhanced control.

### Controller Specifications

External Power	
V in	90 - 264 VAC
V out	24 VDC (± 5%)
I out	3A

Controller I/O	Rating	QTY
Digital inputs	24 VDC	13
Digital outputs	24 VDC	6
Analog inputs	4 - 20mA	2
Analog outputs	4 - 20mA	2

Environmental	
Operating temperature range	-20°C to 70°C
Storage temperature range	-30°C to 80°C
Maximum relative humidity	90% non-condensing

### Electronic Interface Pump Specifications

	1/4"	3/8"	1/2"	3/4"	1"	1-1/2"	2"	3"
Maximum GPM (l/min)	4.2 (15.8)	8.68 (32.8)	11.52 (43.6)	11.84 (44.8)	40.94 (154.9)	98.4 (372.4)	147.2 (557.2)	-
			9.6 (36.3)	10.88 (41.1)	36.56 (138.3)	98.4 (372.4)	149.05 (564.2)	205.57 (778.1)
Displacement per cycle	.019 (.072)	.0338 (.127)	0.039 (0.15)	0.032 (0.12)	0.296 (1.12)	0.617 (2.34)	1.4 (5.3)	-
			0.039 (0.15)	0.030 (0.11)	0.2789 (1.05)	0.617 (2.34)	1.6269 (6.15)	3.4247 (12.9)
Air Inlet (Female):	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/2" NPT	3/4" NPT	-
			1/4" NPT	1/4" NPT	1/4"	1/2" NPT	3/4" NPT	3/4" NPT
Fluid Connection	NPT/BSP	NPT, BSP	NPT, BSP	NPT, BSP	NPT, BSP A.N.S.I./DIN	A.N.S.I./DIN	A.N.S.I./DIN	-
			NPT, BSP	NPT, BSP	NPT, BSP	NPT, BSP, A.N.S.I./DIN	NPT, BSP, A.N.S.I./DIN	NPT, BSP, A.N.S.I./DIN
Max. Op. Pressure PSI (bar):	125 (8.6)	100 (6.9)	100 (6.9)	100 (6.9)	120 (8.3)	120 (8.3)	120 (8.3)	-
			100 (6.9)	100 (6.9)	120 (8.3)	120 (8.3)	120 (8.3)	120 (8.3)

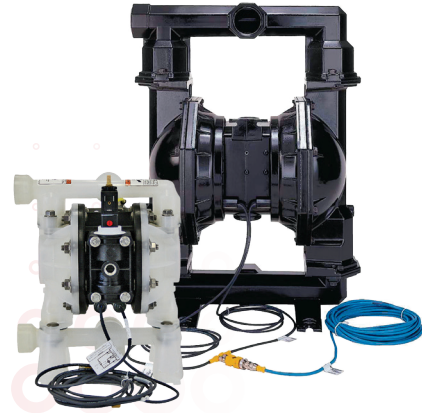
*Metallic Models*

# Preassembled, Yet Custom-Designed

## Choose a Controller

Model Options	
Base Controller	651763-XX-0
Interface with 1 Pump	651763-XX-1
Interface with 2 Pumps	651763-XX-2

XX = AM (Americas), EM (Europe, Middle East, India and Africa), AP (Asia/Pacific)



## Choose a Pump

Position	1	2	3		4	5	6		7	8	9		10	11	12
Example:	PE	05	P	-	A	P	S	-	P	A	A	-	B	D	E

### 1 - Base Model

PE	Electronic Interface
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### 2 - Port Size

01	1/4" Port
03	3/8" Port
05	1/2" Port
07	3/4" Port
10	1" Port
15	1.5" Port
20	2" Port
30	3" Port

### 3 - Center Section Material

A	Aluminum
P	Polypropylene
S	Stainless Steel

### 4 - Connection

A	NPT Thread
B	BSP Thread
F	A.N.S.I Side
Y	A.N.S.I Center

### 5 - Wetted Parts

A	Aluminum
C	Cast Iron
D,E	Groundable Acetal
H	Hastelloy
K, L	PVDF (Kynar)
P, R	Polypropylene
S	Stainless Steel

### 6 - Hardware

P	Plated Steel
S	Stainless Steel

### 7 - Seat Material

A	Santoprene®
C	Hytrel®
D	Acetal®
E	Carbon Steel
F	Aluminum
G	Nitrile
H	440 Stainless Steel (Hard)
K	PVDF
L	Hastelloy
P	Polypropylene
S	Stainless Steel

### 8 - Ball Material

A	Santoprene®
C	Hytrel®
G	Nitrile
S	316 Stainless Steel
T	PTFE
U	Polyurethane
V	Viton

### 9 - Diaphragm Material

A	Santoprene®
C	Hytrel®
G	Nitrile®
T	PTFE
V	Viton

### 10 - Revision

A	First
B	Second
C	Third

### 11 - Specialty Code 1

D	Solenoid 24VDC, 48VAC + 44VAC
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### 12 - Specialty Code 2

E	End-of-stroke feedback + leak detection
F	End-of-stroke feedback

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# ARO®

ARO® is a brand of Ingersoll Rand. Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$12 billion global business committed to a world of sustainable progress and enduring results.