

EASYSTREAM



EASYSTREAM

Dispense Monitoring Made "Easy"

DISPENSE MONITORING SOLUTIONS

EASY to Apply
EASY to Configure
EASY to Operate



EASYSTREAM DISPENSING MONITORING SOLUTIONS



The KREMLIN REXSON EASYStream Solution is an easy-to-use, easy-to-apply, electronically controlled fluid monitoring system. The “EASYStream” Solution can monitor and verify material volume usage and real time flow monitoring for any industrial fluid dispense application.

Applications that can be as basic as a manual dispense operation or as complex as a fully robotic dispense application. EASYStream has the capability to monitor the dispense process and provide the end-user with the dispense status results. The EASYStream will output the real time flow rate results or verify the part volume status at the end of each dispense cycle. EASYStream is the solution that verifies each part in your production operation will meet the specified dispense requirements for producing quality parts.

The EASYSTREAM Solution has three modes of operation to fit the required dispense application, which are;

TARGET FILL (BATCH) MODE

- Filling/Dispensing operations which require a pre-programmed set volume amount of material time after time.

Applications:

- Gear Boxes
- Transmissions
- Differentials
- Potting
- Cable Filling
- Containers/Pails

VOLUME VERIFICATION MODE

- Monitors the volume amount of material dispensed and reports amount dispensed is within or out of specified alarm tolerances.

Applications:

- Bead Dispensing
- Ribbon Dispensing
- Stream Dispensing
- Bonding
- Gasketing
- Gum Drops

FLOW VERIFICATION MODE

- Monitors the real time flow rate and reports volume flow amount is within or out of specified alarm tolerances.

Applications:

- Spray Pattern
- Continuous Bead

FEATURES

Adaptable-Options/Configurations

Universal/Accurate

Insensitive to pressure fluctuations

Easy to use-Key pad entry

Process Status Verification

BENEFITS

Easily adapted to virtually any dispensing system

One system offers Volume, Flow or Target Fill Operational Modes

Use with virtually any system or material

Simple user interface and operation

Each and every part gets “positive” verification of correct material delivery

PROCESSES



STREAMING -

Material is applied to the surface by a thin jet that makes the process less sensitive to inconsistencies in the work piece



EXTRUSION -

Material is applied directly on the surface where bead shape is critical to its performance



METERED EJECTION -

System injects precise and repeatable material volumes at pressure



SPRAYING -

Airless application of materials in a wide pattern of consistent thickness



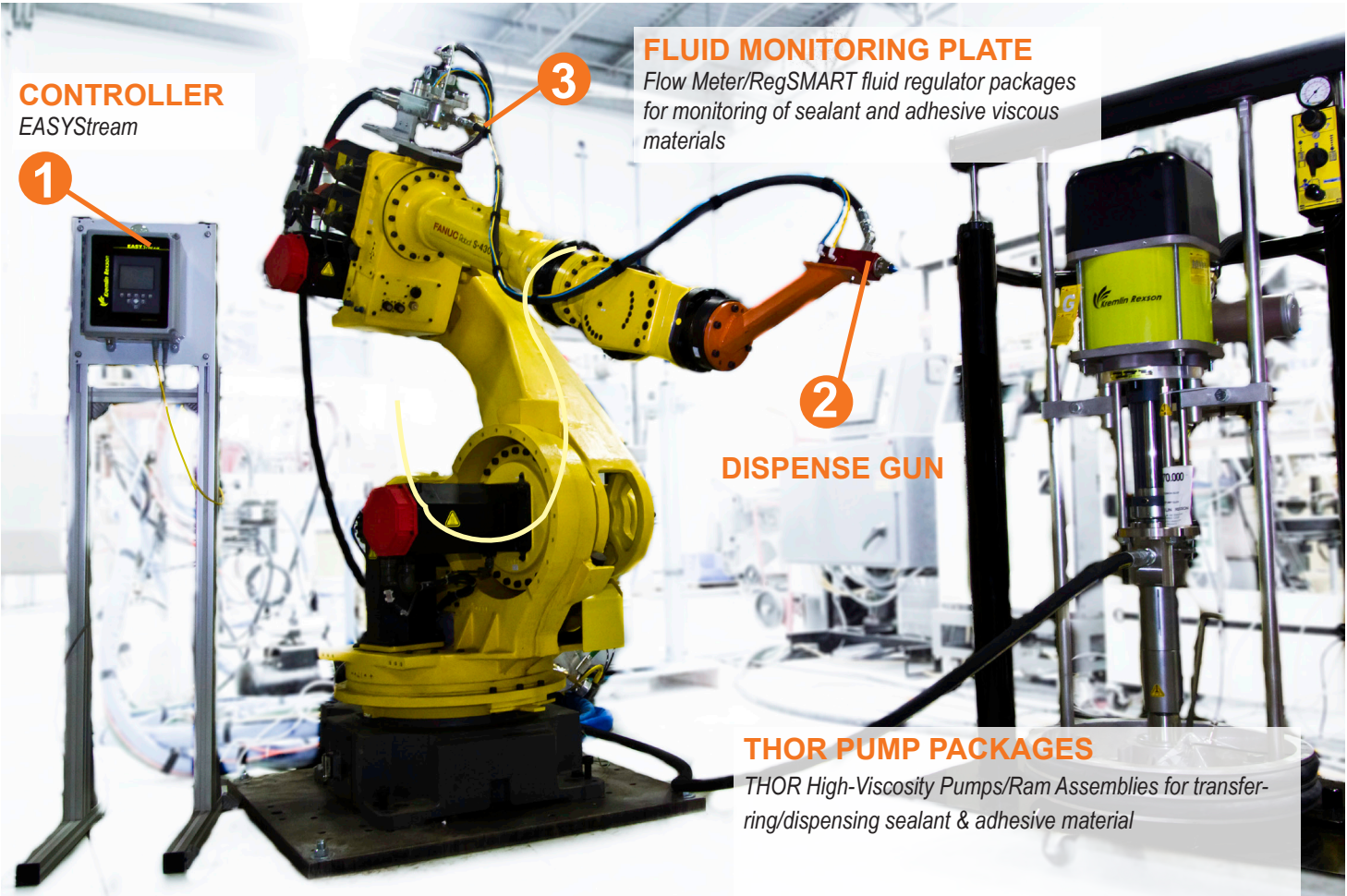
STRING DISPERSION -

Provides a wide application pattern without atomizing the material

EASY TO CONFIGURE

The EASYStream solution can be configured and adapted to an existing dispense operation or integrated into a completely new application.

The EASYStream system solution is made up of a few basic components and is simple to configure using only the EASYStream Controller, Interface Cables and the Flow Motoring Applicator Device making the system selection as easy as 1, 2, 3...



EASY TO OPERATE

The EASYStream solution is an easy to operate system using the controls keypad entry and simple to learn control icons.

Whether using the system in a Target Fill, Volume Monitoring or Flow Rate Monitoring Mode the controller gets interfaced, via cables, to the selected flow monitoring applicator device to provide positive detection of the material usage. An additional interface cable will be required to interface to an automation device (robot) for indicating dispense start/stop and system status commands.

Upon mode selection, Target-Fill/Volume/Flow, the device would be programmed to either shut off after a pre-programmed "target" volume amount for a filling operation or will compare the dispensed cycle volume or real time flow rate amount to a pre-set tolerance. If the preset tolerance amounts do not coincide with the dispense cycle values, then a visual annunciation and interfaced I/O scheme are provided to "alarm" the operation.

SAMPLE APPLICATIONS



BEADS & RIBBONS -
Ideal for bonding joints in all industries



WIDE BEADS -
Beads penetrate to seal joints for waterproofing and general sealing



SHAPED BEADS -
Uniquely shaped beads allow for gasketing and masking of inconsistencies in workpieces; they also dampen vibrations in numerous applications



PATCHES AND COATINGS -
Sprayed patches are used for reinforcement, sound deadening and waterproofing in sheet metal pieces, often replacing hand applied patches



GUM DROPS (MASTICS) -
Gum drops reduce vibration with droplets of materials (anti-flutter); aid assembly where grease is applied in droplets

COMPLETE PACKAGES EASY AS 1,2,3.... 3A,3B,3C



The EASYSTREAM system solution is made up of a few basic components and simple to configure; EASYSTREAM Controller, Interface Cables and the Flow Detection Device making the system selection as easy as 1, 2, 3...

1 EASYStream CONTROLLER

CONTROLLER FUNCTIONALITY:

- Monitor either Flow Rate (cc/s) or Total Volume (cc)
- Provides simple user operation – Key pad entry
- Operate three different dispense valves, in automatic (remote) or manual (purge) mode.
- 15 different body styles to monitor material volume. Each body style has set table low and high volume limits
- Indicator Beacon; Green = Ready; Yellow = Not Ready; Yellow (blinking) = Need to dispense; Red = Fault
- Output signals to automation equipment; Ready, Fault and Dispensed OK
- Can dispense to a Volume using an automatic or manual process (Target Stop)
- The controller is easy to interface and is equipped with a 19 pin interface cable
- The controller has three pass through signals
- Standard control cable included

EASYSTREAM CONTROLLER	
Description	Part Number
EASYStream Controller	668-040-000

2 SYSTEM INTERFACE CABLES

- Optional system interface cable to integrate to robotic or automation systems

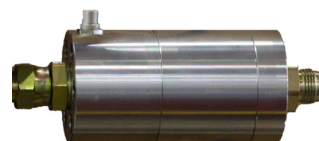
SYSTEM INTERFACE CABLES	
Description	Part Number
5m ES System Interface Cable	83-3078-05
10m ES System Interface Cable	83-3078-10



3 FLOW METER

- Simple flow meter addition for retrofit to systems that have an existing regulator and dispense gun

FLOW METER	
Description	Part Number
Flow Meter	668-040-902



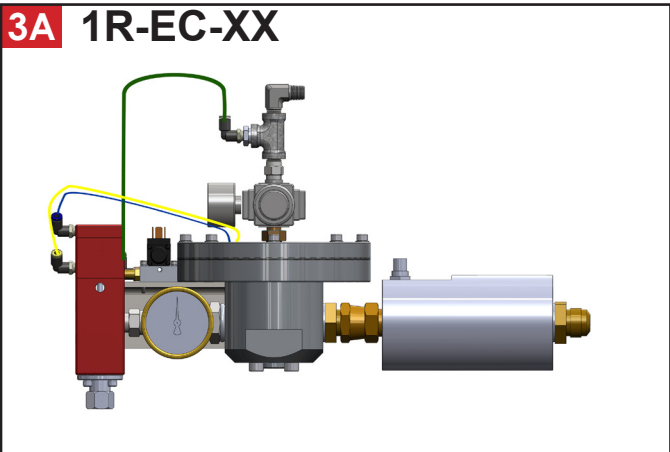
FLOW METER
Helical flow meter

FLUID MONITORING PLATE OPTIONS (3A, 3B, 3C)

- Fluid monitoring plate options (3A, 3B, 3C) for new applications which require a regulator and dispense gun
- These options include Flow Meter, RegSmart Fluid Control Regulator, and required hardware for a complete dispense package

XX= Ball and Seat carbide diameter (06mm, 08mm, 12mm)

3A 1R-EC-XX

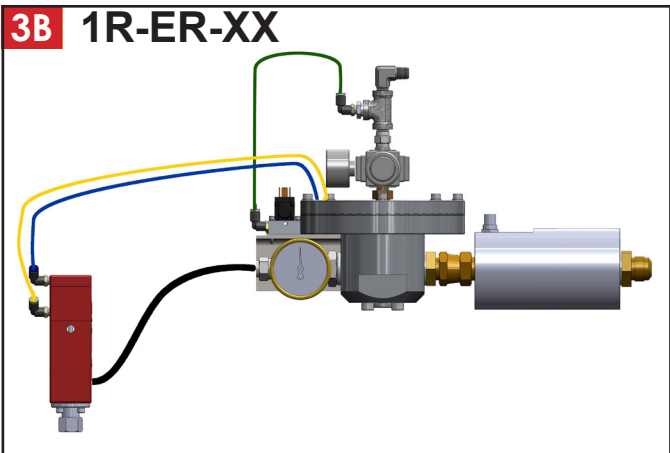


CLOSE COUPLED

Designed for end-effect or mounting on robot, pedestal or customer fixture. Most precise configuration.

CLOSED COUPLED	
Description	Part Number
1R-EC-06	668-040-210
1R-EC-08	668-040-220
1R-EC-12	668-040-230

3B 1R-ER-XX

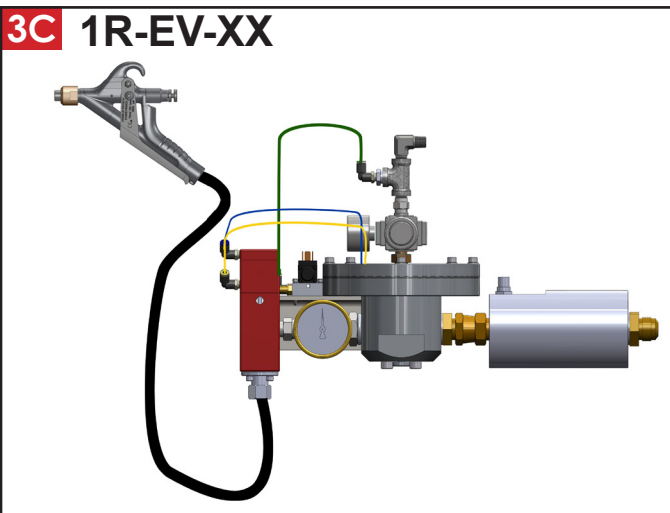


REMOTE MOUNT

Designed for robots that have less payload, capacity or reach restrictions. Dispense valve at point of application and regulator sensor on robot shoulder.

REMOTE MOUNT	
Description	Part Number
1R-ER-06	668-040-310
1R-ER-08	668-040-320
1R-ER-12	668-040-330

3C 1R-EV-XX



TARGET VOLUME

Designed for manually dispensing a set target volume of material consistently.

TARGET VOLUME	
Description	Part Number
1R-EV-06	668-040-410
1R-EV-08	668-040-420
1R-EV-12	668-040-430

EASYStream SPECIFICATIONS

EASYStream is a Low Cost Quality dispense monitoring system.

The EASYStream system has a small graphic display, keypad and embedded controller. The control box is only 8" x 10". The controller operates a regulator type dispense system. The monitoring system uses a manual adjusting Johnstone material regulator to control the material output and Flow Monitor to verify how much material (volume) has been dispensed.

The interface between the Automation equipment and the EASYStream system uses discrete I/O. It has minimum power requirements 18-32VDC (0.85 A) remote power supply is required.

Note: Any suitable material regulator and flow monitor can be used.



The controller offers:

- Simple user operation – Key pad entry
- Operates three different guns, in Automatic or Manual (purge) mode
- 15 different body styles to monitor material volume
- Each body style has settings for Low and High Volume Limits
- Indicator Beacon:
 - Green = Ready
 - Yellow = Not Ready
 - Red = Volume Fault
- Outputs to Automation Equipment:
 - Dispense Ready, Dispense Fault, Volume OK

Additional Features:

- The EASYStream has three pass through signals.
Example: An output can operate a solenoid valve and two input signals from proximity switches can validate a valve has shifted.

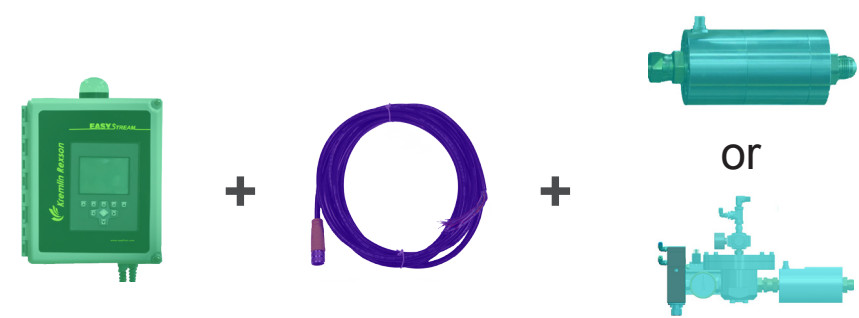
CONTROLLER SPECIFICATIONS

Controller Power requirements	18 – 32 VDC 24VDC nominal
Full Load Amps	Single Dispense Valve 0.45 A Dual Dispense Valve 0.65 A Triple Dispense Valve 0.85 A
Operating Temperature Range	0-60°C (32°-140°F)
Operating humidity range	0-70% non-condensing
Interface connection	19 pin Turck
Box dimensions	20.3 x 25.4cm x 17.8cm (8in x 10in x 7in deep)

FLUID DELIVERY SPECIFICATIONS

Air Supply Pressure Pump	1.37 Bar (20psi) - 6.2 Bar (90psi) pressure range
Air Supply Material Regulator	6.2 Bar (90psi). Working pressure
Air supply must be free of dirt , contaminants and water	
Minimum air filtration 5 micron	Application dependent
MATERIAL FILTRATION	
Wall-mounted	30 mesh (500 Micron) Recommended
Viscosity range of material	30 – 1,000,000 cps with 360-099 flow monitor
RATES	
FLOW MONITORING SETTING	
Minimum Flow Rates	25cc/m360-099 flow monitor (Low Flow Setting)
	Minimum Low Flow Setting Shot Size 1.0 cc.
	60 cc/m360-099 flow monitor (High Flow Setting)
Maximum Flow Rates	Minimum High Flow Setting Shot Size 2.0cc
	2700 cc/m 360-099 flow monitor (Low Flow Setting)
	5400 cc/m 360-099 flow monitor (High Flow Setting)

DISPENSE PACKAGE SELECTION CHART



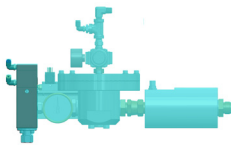
EASystream CONTROLLER	
Description	Part number
EASystream Controller	668-040-000

+

SYSTEM INTERFACE CABLES	
Description	Part number
5m EASystream Interface Cable	83-3078-05
10m EASystream Interface Cable	83-33078-10

+

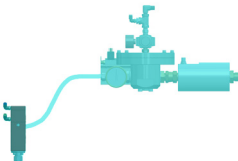
CLOSED COUPLED	
Description	Part Number
1R-EC-06	668-040-210
1R-EC-08	668-040-220
1R-EC-12	668-040-230



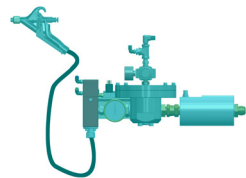
FLOW METER	
Description	Part number
Flow Meter	668-040-210

or

REMOTE MOUNT	
Description	Part Number
1R-ER-06	668-040-310
1R-ER-08	668-040-320
1R-ER-12	668-040-330



TARGET VOLUME	
Description	Part Number
1R-EV-06	668-040-410
1R-EV-08	668-040-420
1R-EV-12	668-040-430

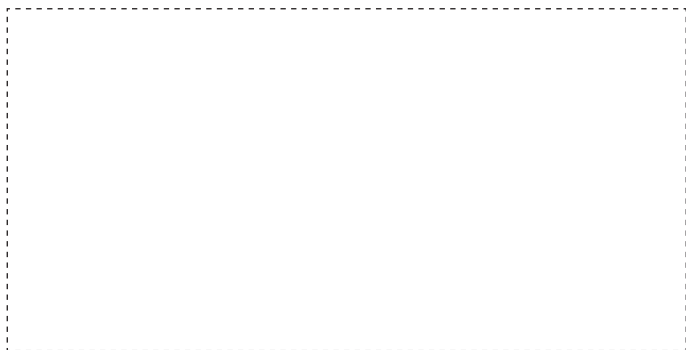




Experts in Finishing and Dispensing Solutions

KREMLIN REXSON offers a wide range of pumps and equipment for the protection of materials and application of paints, sealants and adhesives in many different markets such as:

- Rolling equipment
- Plastic industries
- Wood (kitchens, bathrooms, furnitures and joineries)
- Leather
- Renewable energies (windmills, solar)
- Aeronautics
- Construction equipment
- Packaging (drums and containers, etc...)
- Appliances
- Consumer goods
- Glass coating
- Cycles and motorcycles



www.exel-na.com

EXEL North America, Inc.

North American Headquarters
45001 5 Mile Road
Plymouth, MI 48170
Toll Free: (800) 573-5554
Phone: (734) 979-0100
Fax: (734) 927-0064

EXEL North America, Inc.

Canadian Branch
931 Progress Ave., Unit 7
Scarborough, Ontario M1G 3V5
Toll Free: (800) 450-0655
Phone: (416) 431-5017
Fax: (416) 431-9171

EXEL-NA, S.A. de C.V.

Acceso III N°16A Int 15A
Conjunto Quadrum
Parque Industrial Benito Juárez
Santiago de Querétaro, Qro.
México, C.P. 76120
+52 (442) 209-5027 /161-2595 Ext 170 Oficina
+52 (81) 1811-0955 Nextel ID: 92*898188*2