



ACS Module

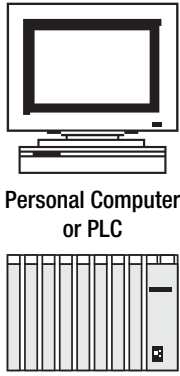
Advanced Control System for E-Flo™ 4-Ball Piston Pumps



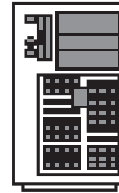
Graco's ACS Module provides optimal control of paint circulating systems when used with E-Flo pumps and 3rd party variable frequency drives (VFD's).

- Provides optimized run cam profile for reduced pressure fluctuations
- Integrated pressure control mode available for on-demand fluid supply
- Increase energy savings with on/off production control modes
- Real-time monitoring and reporting of fluid pressure and flow rate

Typical Advanced Control System (ACS) Setup



Graco ACS
Module



Customer Variable
Frequency Drive (VFD)



E-Flo 4-Ball
Piston Pump

Technical Specifications:

Inputs:

Input Voltage	20-30 VDC, 250 mA, reverse polarity protected
Analog Inputs	2 inputs for 4-20 mA current loop sensing. Inputs protected from direct application of 24 VDC
Digital Inputs	4 inputs: TDC, Position Sensor, AutoSleep and Reset. Digital inputs are 24V logic level NPN

Outputs:

Analog Outputs	2 – 4-20 mA loop for VFD communication, adjustable offset and span
Digital Outputs	2 – 1A, 24 VDC, open contact, normally open relay outputs, used for back pressure regulator control and Drive Enable

Communications: 1 Ethernet port and 1 RS485 port

Ambient Conditions:

Operating temperature range ..	0-50°C (32-121°F)
Operating humidity	10-90% relative humidity, non-condensing

Installation Location: Non-Hazardous

Installation Type: DIN rail

Instruction Manual 3A0006



Ordering Information:

24H372	ACS Module
16A630	TDC & Position Sensor Barrier
16A633	Pressure Transducer Barrier

When integrating an ACS Module the E-Flo pump must be configured with a Graco ATEX/FM sensor circuit.

Optional Equipment:

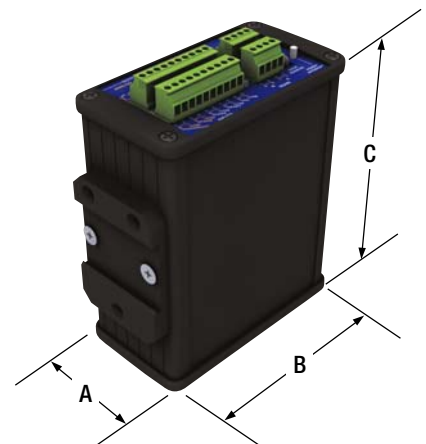
15V331	Ethernet IP Gateway Assembly
15V963	DeviceNet Gateway Assembly
15V964	Profibus Gateway Assembly

The ACS Module is compatible with a Visual Basic software program for set up and control through a personal computer. A free download is available on www.graco.com/finishing.

Optional Gateway assemblies provide networking and PLC communication with common protocols.

Dimensions:

Module	A	B	C	Weight
ACS	59 mm (2.3")	114 mm (4.5")	130 mm (5.1")	0.5 kg (1.1 lb)



All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Graco is certified ISO 9001.

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