



ACS Module

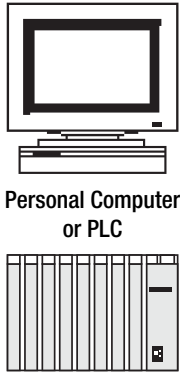
Advanced Control System for E-Flo™ 4-Ball Piston Pumps



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

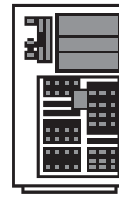
Typical Advanced Control System (ACS) Setup



Personal Computer
or PLC



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:

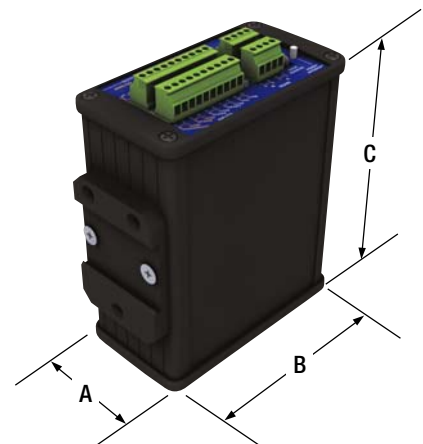
| | |
|--------|------------------------------|
| 15V331 | Ethernet IP Gateway Assembly |
| 15V963 | DeviceNet Gateway Assembly |
| 15V964 | Profibus Gateway Assembly |

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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