

# Houghton® ACTS™ -02 Fluid Monitor and Control System

Houghton Metalworking Fluid Equipment Solutions

*A metalworking fluid monitor and control system designed to reduce operating and maintenance costs.*

The Houghton® ACTS™ Fluid Monitor and Control System is completely self-contained and represents a new standard in *metalworking fluid property measurement and control*.

This Houghton engineered system:

- Measures fluid pH, conductivity, concentration via refractive index and temperature
- Has recordable and downloadable measurements to enable metalworking fluid analysis, preventative maintenance and performance optimization
- Provides automatic concentration control capability by independently controlling six separate programmable relay outputs for additions of water, fluid concentrates or additives. These relays can be programmed to turn on and off water valves or pumps



## BENEFITS

- **Metalworking fluid quality control**
- **Reduced metalworking fluid costs**
- **Reduced manpower for lab testing and concentration control**
- **Fewer sump side additives**
- **Reduced maintenance costs**
- **Minimized waste treatment**

## What is ACTS?

- A: Acquires** data that can be recorded and **Analyzed**.
- C: Controls** properties versus target settings, **Checks** and **Confirms** that system is running within required ranges and if not **Corrects**.
- T: Tunes** the fluid system for optimal operation and lets you **Take** action.
- S:** Can be used to **Synchronize** tanks and equipment to work better together.



HOUGHTON®

# Fluid Partnerships Making a World of Difference

## FEATURES AND SPECIFICATIONS

**Power:** 100-240 VAC; 5-60 Hz. Feed at 7A maximum

**Measures:** Up to 6 inputs; Photo shows – 4 inputs: pH, Conductivity, Refractive Index and Temperature

**Displays:** 3 of 6 inputs continuous: pH, Conductivity, Refractive Index; Graphing each up to 90 days; Touch screen programmable and password protected

**Range:** pH 2-16; Conductivity 0-30,000  $\mu$ S/cm; Refractive Index 0-35 Brix; Temperature 0-70°C (32-130°F)

**Control:** Up to 6 separate outputs; 3 powered relays; 3 dry contact relays (1A each, or 6A one relay); Fully programmable high and low set points; pulse timing; manual override is time limited

**Data Storage:** 90 days per input

**Output:** Downloadable to a thumb drive; Reads direct on Excel spread sheet; Plus 6 outputs from any of 6 inputs; Ethernet output, one 4-20 ma output

**ANDON Fluid Monitor™:** Basic red, yellow, green alarm lights; Sapphire lens; 1024 pixel resolution; 24 VDC, 1A

*ANDON is a Japanese term used in lean manufacturing and refers to a system of alerting workers to a quality or process problem.*

**Cabinet:** NEMA 4X; Clear glass door; Lockable; 24"x24"x8"

**Weight:** 70 pounds; 32 Kg

**Availability:** 4-6 weeks

**Available exclusively from Houghton International**

## SIMPLE SETUP

1. Supply power to unit (110-120 VAC, 50-60 HZ, 1 PH).
2. Connect fluid feed from a pressurized source via 3/8" tubing, and return fluid via 3/8" tubing to the source.
3. Identify what you want to add to the system such as water (via control valves) or fluid concentrate (fluid proportioner or pump) that are controlled by any one of 6 relays.
4. Program controller using built in touch screen display.
5. Set ANDON alarm levels with included PC software.
6. Your system is set-up and ready to go.



To give you full control over your fluids,  
Houghton® ACTS™



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