

# D'ARSONVAL COCKPIT INSTRUMENTS

## WORLD CLASS INSTRUMENTATION

Flightline Systems' line of engine and flight instrumentation based on traditional technology was originally designed and manufactured by the Lewis Engineering Company of Naugatuck, Connecticut with a reputation for quality and reliability.

These Analog instruments use a traditional smooth running and well dampened D'Arsonval type movement with very high sensitivity and for most applications requires no input signal amplification. Type-K millivolt signal thermocouples inputs are direct read.

Instruments are configurable for indication of temperature, pressure, voltage, fluid quantity, item position, and many other functions based on application requirements.

Each instrument is designed to meet demanding performance criteria in harsh environments and is available in both environmental and hermetically sealed cases meeting military and commercial environmental requirements. Custom dial, connector, and lighting options are available to meet platform or direct replacement requirements. The design of this instrumentation is well proven and has been installed in various commercial and military applications since the early 1940s and is still utilized in commercial Jet Liners, military fixed-wing, and rotor-wing applications.

Individual instruments are TSO'd to the governing Technical Standard Order for each function or military qualified.



## FEATURES

- Proven design
- TSO and Military Qualified
- Traditional round cockpit instrumentation
- Smooth running
- Well dampened
- Minimal or no signal amplification

## USER INTERFACE BENEFITS

- Many standard sizes: 1", 1.5", 2", and 3" Round analog displays
- Back, edge, or non-lighted versions available
- Clamp or bezel mounting
- Snap-lock MS connectors



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## SUMMARY TECHNICAL DATA

- Accuracy >2% Full Scale
- Lighting: Back-lit White 5V or 28V (Mil-Spec & NVIS Available)
- Depth – Varies based on application
- Weight - Varies based on application
- Operating power: 0, 28, 115V versions depending on signal used for indication.

## OPERATING SPECIFICATIONS

- FAA TSO-C43c, C44b, C45a, C47, C49b, C55, C113
- Environmental
  - Operating temperature -54 to 80 °C
  - Storage temperature -65 to 90°C

## OPTIONS

- Custom dial markings
- Lighting: Red, NVIS, MIL
- Hermetic Sealing
- Custom connectors
- Custom paint
- Custom case