

# Proprietary Controls & Monitors

## Accu-Length Stretch-Length Monitor



## Accu-Length Repeat-Length Monitor



# DIGITAL

Instruments, Inc.



The printing industry has continuously searched for ways to control paper waste and excessive operating costs related to the printing process. Digital Instruments has answered the call, developing its own state-of-the-art web tension monitoring system, the **Accu-Length Stretch-Length Monitor (SLM)**. Digital's SLM helps forms and label press operators accurately determine the proper stretch length while the press is in operation at speeds up to 1,500 feet per minute. Operating with the Accu-Length system insures a finished collated product with precise registration for forms and labels. ROI for this product is less than three months in a typical printing operation.

Digital Instruments has specially designed testing and development equipment for the Accu-Length Monitors.

Digital has also developed a **Repeat Length Monitor (RLM)** to accurately measure repeat length while the press is in full operation. Digital's RLM monitor allows the operator to switch between different screens and menu driven set-up parameters for accurate readings and the ability to alarm when outside of its set range.

Both Units are compatible with existing press equipment, making the installation process simple and have data logging capabilities.

## 3-Phase Motor Analyzing System (MAS-1000LA)

Digital's Motor Analyzing System has been developed to assist motor repair shops and plant maintenance organizations to effectively plan and manage their electric motor rebuild process. The system utilizes the latest data acquisition techniques and measures each motor phase for precise calculation of a motor's operating efficiency for scheduling maintenance or new motor procurement. All test procedures are based upon IEEE Standard 112 Method E and the MAS-1000LA also tracks stator loss and start-up current. A standard package of reports is available for certification and record of all rewind activity performed.



## Chart Recorder

Digital has developed its own line of Data Chart Recorders for the OEM market, which are available in 4", 6" and 8" sizes and can log applicable data for a wide range of industrial, clinical and commercial applications.



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# Software

# Design → Manufacturing → Service



Complete R&D Lab

## One Complete Process

Can your company benefit from custom controls? Why not let Digital Instruments and its over 25 years of experience designing and manufacturing custom control solutions assist you to determine the fit. A review of your specifications will be the basis of a feasibility proposal from Digital outlining the project scope and a complete process from concept and design, through prototype, manufacturing, service and warranty.

## Solutions Engineering

The Digital Instruments Engineering Department has experience in designing a wide variety of controls and monitoring devices. Digital designs and manufactures a complete product that will optimize your application, incorporating microprocessor technology and value engineering. Design solutions include custom overlays, PC boards, specialized programming and packaging designs. Your company can have a custom solution that has been fit to your specifications, not you changing your specifications to match some off-the-shelf monitor or control.

## Quality Manufacturing

Digital Instruments manufactures what it designs. Their in-house manufacturing facilities insure better quality control, faster product to market time, and after sales support capabilities. The manufacturing department produces pre-production prototypes and quality manufactured controls that meet the strictest specifications guidelines, while staying within your budget. Manufacturing includes digital and analog circuitry, microprocessor PC board construction, faceplate production, enclosures, 100% testing and complete packaging.

## Warranty and Service

Digital Instruments prides itself on service, and supports its products by providing warranties that are tailored to each client's specific needs.



Trained Technicians



100% Testing Standards

# Custom Controls & Monitors

## Designed to Your Specifications

Invariably, standard controls are a compromise. They either offer more features than you need, lack features you do need, or just don't fit. Custom design can give you exactly the features and sizes you need, and save your company money while improving your product's performance.

Custom designed controls can make your product unique in your marketplace putting you steps ahead of your competition. Most times it is more cost efficient to replace obsolete controls or costly PLCs with custom designed controls.



Custom Controls and Monitors developed for the Air Dryer Industry

## Applications Include:

- Refrigerated and Descant Air Dryers
- Timers and Sequencing Controls
- Marine and Industrial Heating Controls
- Industrial Oven Controls
- Machine Cycle Controls
- Temperature Monitors & Alarms
- Stretch Length Monitor - Printing
- Temperature Probes
- Digital Readouts
- Data Chart Recorders
- Industrial Truck Operations Timers
- Remote Monitoring Devices

## Is Custom Design For You?

In determining if CUSTOM DESIGNED COMPONENTS are right for your application, first identify what unique features and functions you wish to include, forecast the annual quantities required, and packaging requirements - our engineering staff takes over from there. This process has historically produced custom controls that provide our clients with a competitive advantage in their industry.

## Custom Design Options include:

- Micro component and membrane switch technology.
- Replacement of old controls with sleek, innovative custom controls.
- PC Board and Panel configuration to your exact specifications.
- Highly visible backlit LCD display technology.
- Superior graphic design, precision image layout and accuracy.
- Custom overlay, nameplates and panels designed with your color scheme and logo, integrating our monitor with your product.
- Use of surface-mount and through-hole technologies
- Microprocessor based monitor / control designs enabling cross-configuration and multiple variations of the same unit.
- Set points that allow the user to determine ranges.
- User friendly touch screen control technology.
- Applications incorporating remote sensor and monitoring technology.



Wide Range of Control Options

# Temperature Monitors

## Precision Temperature Monitoring

Digital Instruments, specializes in temperature monitors and control systems. We offer monitors featuring highly reliable and readable displays, remote monitoring capability and multiple I/O lines for complex control functions at a fraction of the cost of a comparable PLC. When accuracy and reliability are critical, Digital's many years of experience designing and manufacturing proven temperature monitors and controls will set you apart from your competition.

## Probes

Digital also manufactures its own temperature probes and has succeeded in solving even the most challenging technical issues to accurately measure fluctuations in any application or environment. **Self-test probes are a Digital specialty.**



Custom Temperature Monitors with Probes produced for blood storage refrigerators and freezers.

- Multi functional monitor capabilities allow for expanded product offerings within a core product line.
- Multiple set points permit user interface to program temperature ranges.
- Local audible, visual and remote alarm capabilities.
- Temperature and alarm data logging, including RS232 & RS485 serial ports.



Junction Box

## Wiring Junction Boxes

Digital's proactive design capabilities include developing junction boxes that eliminating hand wiring, improve wire harnessing efficiency and reduce production costs.



Probes

**DIGITAL**  
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Call toll free 1-800-779-2909