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Pepperl+Fuchs Launches Industrial Monitors Engineered for Extreme Environments

Fully configurable to suit specific application requirements

Pepperl+Fuchs introduces VisuNet DM, specifically designed monitors to deliver reliable operation and long life in harsh application environments, or in applications demanding continuous duty operation. They are a true industrialized monitor, delivering the highest MTBF in the industry at over 550,000 hours. These high quality monitors carry both the UL and CE mark, and are available for general purpose or Class I/Div 2 environments. Touch screen and transfective options are available.

VisuNet DM monitors are available in 10", 12", 15", 18" and 19" sizes, and are rated for use in temperatures ranging from -10° C to 60° C. They accept standard VGA or NTSC (or PAL) inputs from a PC or video camera source. Additionally, they can multi-sync to any standard video mode from 640x480 to 1280 x 1024 at scan rates from 60 to 75 Hz, without image distortion or flicker. The VisuNet DM monitors are 12 V DC powered displays, powered from an external power supply to keep heat away from the monitor, maximizing reliability and operating life.

Pepperl+Fuchs' family of rugged flat panel monitors are made with only industrial grade components. No consumer grade electronics are implemented in the product to cut costs. This differs with other monitor manufacturers that package steel around a commercial grade LCD, and sell it as an industrial device.

Starting with an industrial grade LCD is only the first step to delivering a premiere-quality product. Additional ruggedizing attributes that make these a true industrial flat panel display solution include:

- Heavier gauge metal & wiring, corrosion protection
- Internal bulkhead wiring, gold plating, latching/tie downs
- Better shock/vibration specs, shock absorbing gaskets

- Higher temperature and humidity specs
- Brighter back lamps (up to 600 nits) and wider viewing angles
- Longevity/support/replaceable back lamps
- Full industrial agency ratings

Pepperl+Fuchs industrial grade monitors are available with an optional resistive touch screen. This is a UL Listed, 5-wire resistive touch screen suitable for general purpose, and Ex-hazardous Class I/Div 2 environments. A resistive touch screen provides mouse emulation by applying a small amount of pressure on the desired location of the monitor screen. This allows the operator to use a finger, glove, stylus, etc. to initiate the touch screen functionality. For more harsh environments, there is also a hardened resistive touch screen available. A self-calibration tool is provided for precise adjustments. For PC interface, our touch screens have both a USB and Serial output to be connected to the host PC.

An additional option is a hardened resistive touch screen, where a thin glass layer is bonded to the front user surface providing superior protection against long term surface wear and incidental scuffs. This glass layer also protects against the effects of corrosive chemicals and provides shatter protection from frontal impacts. The hardened resistive touch screen is interchangeable with the standard touch screen, and can be upgraded upon request.

A variety of accessories are available to complement these industrial flat panel monitors, including:

- 12V DC power supplies
- 12V DC power supplies for Class I/Div 2 applications
- 5-pin DIN connectors cables for power
- Analog video cables (VGA)
- USB cables for touch screen interface
- Serial cables for touch screen interface
- Touch screen protector overlays

About Pepperl+Fuchs

Pepperl+Fuchs is a leading developer and manufacturer of electronic sensors and components for the global automation market. For more than 60 years, our continuous innovation, high quality products, and steady growth has guaranteed us continued success.

One Company – Two Divisions

Pepperl+Fuchs – PROTECTING YOUR PROCESS

The **Process Automation Division** is a market leader in intrinsically safe explosion protection. We offer comprehensive, application-oriented system solutions, including customer-specific control cabinet solutions for the process industry. A large portfolio of components is available from our various product lines: isolated barriers, fieldbus infrastructure solutions, remote I/O systems, HART interface solutions, level measurement devices, purge and pressurization systems, industrial monitors and HMI solutions, power supplies, separator alarm systems for oil and petrol separators, signaling equipment, lighting as well as emergency shutdown equipment and accessories.

Pepperl+Fuchs – SENSING YOUR NEEDS

With the invention of the inductive proximity sensor in 1958, the company set an important milestone in the development of automation technology. Under the motto “Sensing your needs”, customers benefit from tailor-made sensor solutions for **factory automation**. The main target markets of the factory automation are machine and plant construction, the automotive industry, storage and material handling, printing and paper industry, packaging technology, process equipment, door, gate and elevator construction, mobile equipment, renewable energies.

The division offers a wide product range of industrial sensors whether it’s inductive, photoelectric or ultrasonic sensors, rotary encoders, identification systems, barcodes, code readers for data-matrix-codes and vision sensors.

Key words: VisuNet DM, Industrial flat panel monitor, extreme environments, continuous duty operation, touch screen, general purpose display, UL rated Class I/Div 2 display

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Fig. 1: VisuNet DM - engineered for extreme environments