

Plant Floor Marquee

Industrial Tricolor Displays with Unprecedented Connectivity



- Large tricolor displays provide instant notice of critical information
- Create your own “OEE” or “Andon” production display board with automated data collection
- Host device allows connection to virtually any industrial device or PC via Ethernet, serial or choose from over 170 communications drivers

Plant Floor Marquee. Performance that's impossible to ignore.

Red Lion's PFM series of large, graphical, multi-color LED marquee displays perform brilliantly in applications where information is key to production or process tracking and improvement.

Red Lion's Plant Floor Marquee (PFM) series facilitates the collection, calculation and communication of critical production and process information to floor personnel including production targets, cadence, alarms, machine uptime and downtime measurement, and OEE (overall equipment effectiveness). Available in four models, the PFM series offers highly visible, multi-color conveyance of data to the entire plant floor and to the enterprise level.

Far more than a simple large display, the PFM series features the unprecedented capability to communicate with over 170 different protocols, and the ability to send and receive data from seven or more device types simultaneously. These unique capabilities, which are provided through a required host device (a Red Lion G3 series HMI, Data Station, or Modular Controller), allow collection of data from various sources — with integrated calculation to optimize displayed information in the way it is most useful to your facility. Along with the advanced network communication and data collection, the PFM host enables a web-based HMI for those not on the factory floor, and can store logged data to an FTP site. The PFM offers possibilities that reach far beyond conventional production displays.





Collect. Calculate. Communicate. Illuminate.

Increase Productivity

The Plant Floor Marquee series is an effective solution for increased productivity.

By communicating real-time production rates and goals, personnel are continuously informed as to whether manufacturing goals are being met. The host products also allow the data to be logged to the on-board CompactFlash® card for later review.



Reduce Downtime

The PFM series is an effective means to communicate vital information to personnel across large factory floor environments. Equipment status, alarm conditions, and causes of machine stoppages can be seen at a glance, resulting in vastly reduced downtime.



OEE- Overall Equipment Effectiveness

To compete in today's global market, manufacturers must be able to benchmark machine utilization as well as efficiency. A PFM provides the means to collect data from existing automation devices, greatly simplifying the task of implementation. Red Lion host devices provide a complete library of drivers to communicate with over 170 PLCs, drives, barcode scanners and more, and 32-bit floating-point math support offers the ability to perform custom calculations for display or logging.

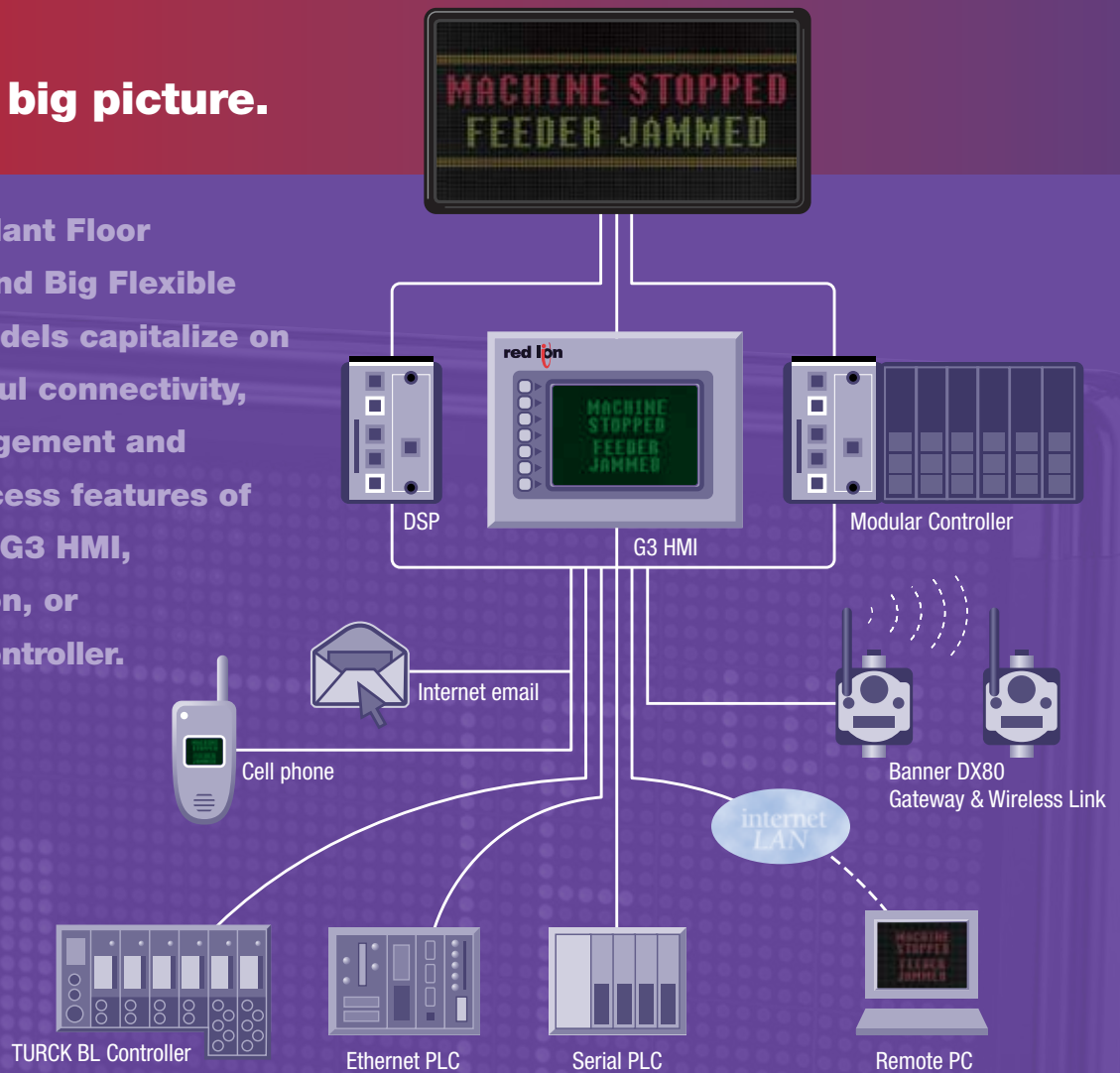
Big Flexible Display: Large graphic display with NEMA 4 protection



For a large, environmentally tough display, Red Lion's Big Flexible Display (BFD) model offers a bright, single-color, graphic display with NEMA 4 protection. Sized at 38.5" wide and 19" tall, this 128 x 64 pixel display provides a highly visible image. For rugged performance, the BFD display features a welded steel enclosure with a 0.118" thick red acrylic display window that is sealed to the enclosure using a gasket and bezel strips. The gasketed rear panel is bolted to the enclosure for easy access if required.

See the big picture.

Both the Plant Floor Marquee and Big Flexible Display models capitalize on the powerful connectivity, data management and remote access features of Red Lion's G3 HMI, Data Station, or Modular Controller.



Host devices provide powerful display capabilities.

A Red Lion host device provides a powerful set of data integration tools in a single box that delivers advanced features for data management, with or without a PFM.

- Connect and communicate to multiple PLCs, drives, motion controllers, HMIs, motor control products, breakers, SCADA, PCs and more.
- Perform simultaneous protocol conversion — over 170 protocols supported.
- Support up to three serial and four Ethernet ports simultaneously.
- Expansion slot supports additional serial ports, DeviceNet™, Profibus®DP, or CANopen interface cards.
- Transmit raw data directly to the display, or perform calculations via the host devices' 32-bit floating point math functions to display optimized data.
- Use the host's data logging ability to save data to a CompactFlash® card, email it, or upload the data to an FTP destination.
- Send event/alarm information via email or text message to a mobile phone.
- Program connected PLCs using the host's pass-through ability.
- Monitor and control functions remotely via a web browser from any networked PC with Red Lion's web based HMI capabilities.
- Download a configuration to the host through Ethernet, USB, a serial connection or via the integrated CompactFlash® card reader.



Plant Floor Marquee and BFD Specifications



PFM – Plant Floor Marquee

Graphical Multicolor LED Display

- Graphical tricolor LED display (Green, Yellow and Red)
- Four sizes for different applications
- Addressable to support multidrop wiring

MODEL	Resolution	Dimensions
PFM1608	80 x 16	26" x 6.6" (66.0 x 16.8 cm)
PFM2412	120 x 24	38.5" x 8.8" (97.8 x 22.4 cm)
PFM3212	120 x 32	38.8" x 10.9" (98.6 x 27.7 cm)
PFM6412	120 x 64	39.3" x 22.5" (99.8 x 57.2 cm)

*Models available for both 115 and 230 VAC operation



BFD – Big Flexible Display

Graphical Red LED Display

- Graphical monochrome red LED display
- Resolution 128 x 64 pixels, 38.5" x 19"
- Optional NEMA 4 kit
- Addressable to support multidrop wiring

MODEL	Resolution	Dimensions
G3BFD00	128 x 64	38.5" x 19" (97.8 x 48.3 cm)
G3BFDNEM	NEMA 4	Kit

Plant Floor Marquee Hosts



G3 Series HMI*

Graphic Operator Interface Terminals

- 3 serial ports and an Ethernet port
- Web based HMI for remote access
- Protocol conversion of over 170 protocols
- Data logging to CompactFlash® or FTP
- Email alarms or logged files
- Text alarms to mobile phones
- Functions as an HMI and PFM host at the same time



Data Station Plus Series*

Data Management Platform

- 3 serial ports and an Ethernet port
- Web based HMI for remote access
- Protocol conversion of over 170 protocols
- Data logging to CompactFlash® or FTP
- Email alarms or logged files
- Text alarms to mobile phones
- Functions as a data management platform and PFM host at the same time



Modular Controller Series*

Multi-Loop and Data Acquisition Platform

- 3 serial ports and an Ethernet port
- Web based HMI for remote access
- Protocol conversion of over 170 protocols
- Data logging to CompactFlash® or FTP
- Email alarms or logged files
- Text alarms to mobile phones
- PID and I/O modules for control or data acquisition
- Functions as a data acquisition platform and PFM host at the same time

*For more information on the G3, DSP and Modular Controller Series, please refer to the respective product brochure.

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