



FP2800A DECODER/DRIVER IC

*Proven
Technology
for an
evolving
market*

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ISO 9001 CERTIFIED

GENERAL DESCRIPTION

The FP2800A Decoder Driver provides the logic functions of a "one of 28 decoder". That is, to decode its 5 bit parallel port input to one of 28 outputs at sufficient current to directly drive the coils of the following range of FP Electronics display component products.

- XY5 flip disk - all strips
- Series 36 and 54 indicators - all
- XY7 flip disk - all strips
- SS5,7,8 or 9 - all 1 inch 7 segment modules

In all applications, the device is designed to drive one disk or segment at a time until all have been changed. Additional FP2800As can be used to easily expand the desired display matrix, example: two of these ICs can be interconnected to drive a matrix 14 disks high by 28 disks wide.

APPLICATIONS

- Parking meter
- Gas pump readout
- Changeable price displays
- Modular disk matrix PWAs, line or full matrix

FEATURES and BENEFITS

- CMOS compatible inputs (microprocessor direct)
- Coil drive voltage operation of up to 27.5 Vdc.
- Source or sink coil drive current up to 370 mA.
- Low saturation devices assure the fastest possible switching times for the device under normal load and environmental conditions.
- Internal clamping diodes handle the normal inductive loads for all the above stated product range.
- Complementary driver outputs allow for bridge configuration coil driving schemes

RELIABILITY

A simple external RC timing circuit protects the output from staying on too long thus avoiding any coil damage due to extended input timing conditions.

This one IC replaces many (see below) other components thus increases reliability in the overall driver circuit design .

ECONOMY

Replaces a circuit design that would include multiple CMOS logic ICs and current boost devices otherwise required for driving these coils.



