AFI Display System

Overview:

The **Pertronic AFI Display System** provides a zonal AFI (Alarm, Fault, Isolate) display according to the format specified in AS 4428.1-1998. The system includes the **LED AFI Controller (LEDAFIC)** and the **8-Way AFI Display**. A single controller is capable of driving several displays, with each **8-Way AFI Display** providing AFI information for up to eight zones.
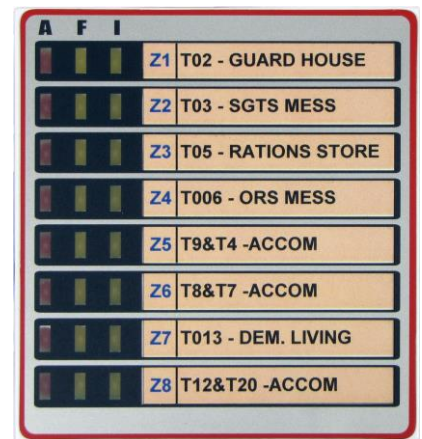
The controller interprets commands from the fire alarm panel panel's **Mimic Bus (RS-485)** and drives the **Ancillary TPIC Bus**, which in turn drives the **8-Way AFI Displays**.

The LEDs are mapped in the Pertronic fire alarm panel configuration as **LED Outputs**. Each LED has an address on the **Ancillary TPIC Bus**. A set of rotary switches on the controller unit defines the panel **LED Number** corresponding to the first address on the **Ancillary TPIC Bus**.

The **Ancillary TPIC Bus** is monitored for faults and supplies DC power to the display units. The **Ancillary TPIC Bus** must be terminated to ensure correct operation of the fault-monitoring system.

The maximum number of **8-Way AFI Displays** that may be connected to a single controller is limited by the current capacity of the **Mimic Bus (RS-485)**. The total load must not exceed 500 mA, including the current drawn by the controller, its on-board outputs, and all **8-Way AFI Displays**.

The **Pertronic AFI Display System** may be mounted inside a Pertronic fire alarm panel or at any convenient remote location up to approximately 1.2 km from the fire alarm panel.

**8-Way AFI Display
(AFI-8WAY)**

**LED AFI Controller
(LEDAFIC)**

Features:

- » Separate **Alarm**, **Fault**, and **Isolate** LED for each zone
- » Label holder
- » Fault monitoring
- » Configurable steady or flashing display
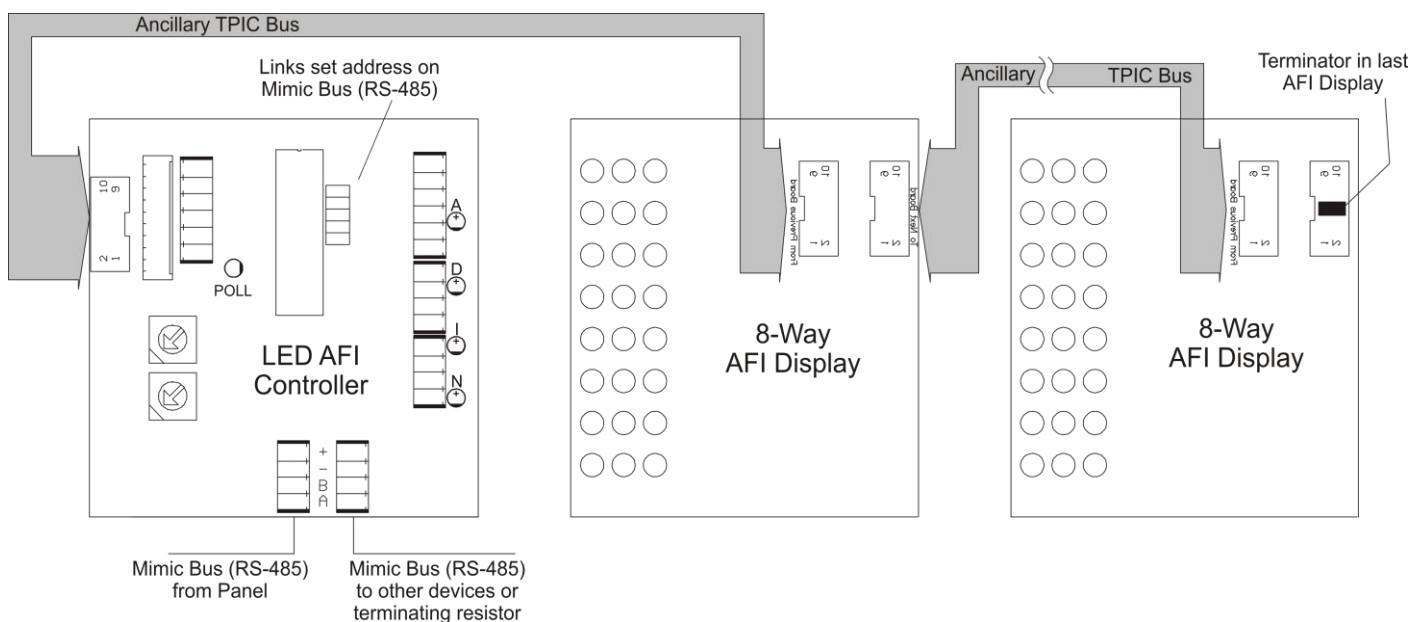- » Configured in panel configuration as **LED Mimic**

Specifications:

LED AFI Controller

»	Dimensions		85 x 85 x 25	W x H x D mm
»	Operating Current	No Load	14 mA @ 27.4 V$_{DC}$	from RS-485
		Maximum	500 mA	including total load on outputs
»	System Inputs		Acknowledge, Evacuation, Silence Alarms	
»	Auxiliary Inputs		Aux. Fault, Door Interlock, Door Switch.	
»	System Outputs		Bells, Buzzer, Evacuation, Silence Alarms.	
»	Open Collector Outputs		Normal, Fire, Fault, Sprinkler	
»	Address on Mimic Bus (RS-485)		0 – 31, link selectable	
»	Lowest LED Number in Panel Config		0 – 990 in steps of 10, via two decade rotary switches	
»	Ancillary TPIC Bus		Single-row 10-way 2.54 mm IDC header	
			Double-row 10-way 2.54 mm IDC header	
»	Connections		2.5 mm² (Mimic Bus (RS-485), System I/P, System O/P)	

8-Way AFI Display

»	Dimensions		77 x 85 x 40	W x H x D mm
»	Operating Current	Normal state	14 mA	
		Active	9 mA for each steady LED	
			4.5 mA for each flashing LED	
»	Ancillary TPIC Bus	In/Out	Double-row 10-way 2.54 mm IDC header	

Connections:

Ordering Information:

Product Code	Description
AFI-8WAY	8 Way "AFI" Display Board + Zone Label Plate (for F100, F120) Needs LEDAFIC
LEDAFIC	LED AFI Controller