

## L0RA0104 Obelix10.4" Colour Display Module IEC Ex d Flameproof ATEX

The Type L0RA0101 Display Module is an industrial IEC-approved flameproof display module designed for remote viewing purposes. Its unique construction allows it to be used in the most rugged of environments and is designed to permit installation onto any machine with minimal integration requirements.

The WinCE 5.0 operating system platform permits a flexible development environment allowing end-users to develop their graphical solutions if required using freely available Microsoft Embedded tools. (The WinCE distribution license is included in the platform.) Alternatively, dedicated Software Engineers at Pempek Systems can develop customised multi-page graphic solutions.

### Flame Proof Enclosure

- Precision Machined Mild Steel
- IEC Ex d I Approved

### Flame Proof Connector Assembly

- Unique flameproof connector
- IEC Ex d I Approved

### Industrial Display Module

- 10.4" True Colour LCD
- Rugged XScale CPU Core with GPU
- Highly Configurable WinCE Platform
- Highly viewable at distance

### Industrial Communication Interfaces

- Supports Ethernet 10/100 via TCP/IP
- Supports RS-422 via Proprietary Protocol
- Supports CAN 2.0B as Option

### Heavy Duty Enclosure

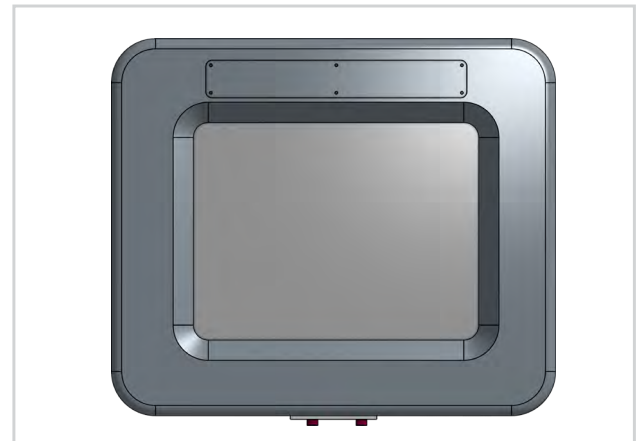
- Electroless Nickel Plated
- Ingress protection to IP65 ('O' ringed)
- Ultra Rugged Construction

### Material

- Enclosure is Electroless nickel plated mild steel.
- Lens is Lexan MR10.

### Fasteners

- M10 x 30mm x 16 Mass
- 60kg (132lb)



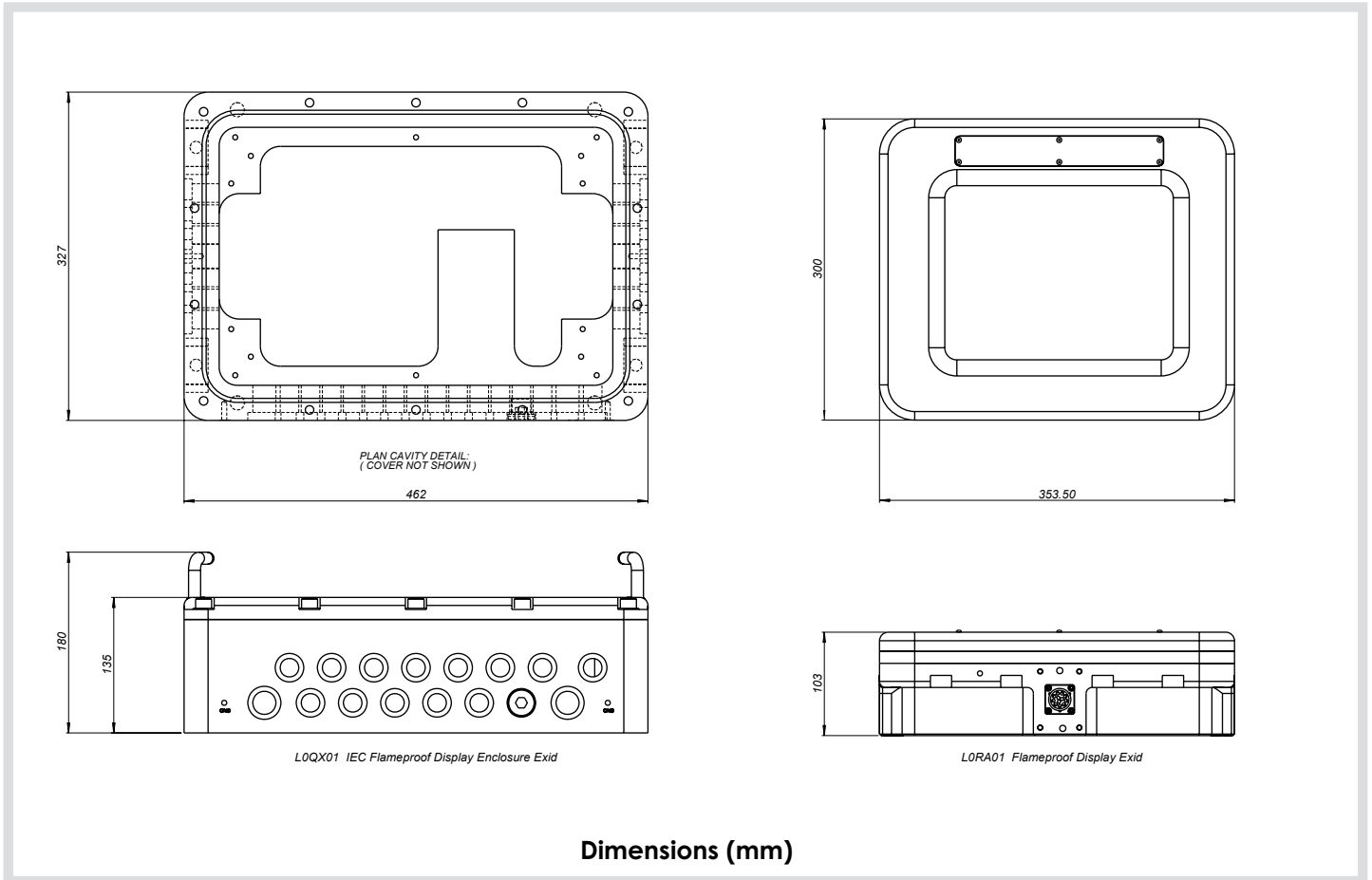
### Typical Application

- Continuous Miners / Bolters
- Continuous Haulage
- Long Wall Shearers
- Mobile Bolters
- Mobile Roof Supports
- Remote Control Scoops
- Remote Control Loaders
- Shuttle Cars
- Any Ex d I display application

### Connector Assembly

Part Number	Description
H0RA0101	IEC Flameproof Connector Assembly

## L0RA0104 Obelix10.4" Colour Display Module IEC Ex d Flameproof ATEX



### Wiring Assignments

PIN	Flameproof Connector Assembly Burndy 12 Way Female Description	Signal
A	Supply Input Active	110-240VAC Line
B	-	-
C	Supply Input Neutral	110-240VAC Neutral
D	RS-422 RXD -	Communications
E	RS-422 RXD +	Communications
F	RS-422 RXD -	Communications
G	RS-422 RXD +	Communications
H	Ethernet RX +	Communications
J	Ethernet RX -	Communications
K	Ethernet TX +	Communications
L	Ethernet TX -	Communications
M	-	-

## L0RA0104 Obelix10.4" Colour Display Module IEC Ex d Flameproof ATEX

### Electrical Characteristics

#### Supply

<b>Voltage</b>	110VAC – 240VAC
<b>Power Consumption</b>	15W <sup>typical</sup>
<b>Maximum Dissipation</b>	17W

#### Communications

<b>Interface</b>	Ethernet 10/100
<b>Throughput</b>	Up to 100Mbps per second
<b>Protocol</b>	TCP/IP
<b>Medium</b>	Hybrid Twisted Pair
<b>Interface</b>	RS-422 Isolated
<b>Throughput</b>	57.6KBits
<b>Protocol</b>	Packet Oriented
<b>Medium</b>	Hybrid Twisted Pair

#### Visualisation

<b>LCD</b>	NEC 10.4" SVGA True Colour
<b>Computing</b>	Marvell 400MHz with companion Silicon Graphics GPU
<b>Operating System</b>	Windows CE 5.0

#### Environmental

<b>Ingress Protection</b>	IP65
<b>Operating Temperature</b>	Minus 10°C to +75°C <sup>1</sup>
<b>Humidity</b>	TBA
<b>MTBF</b>	12,000 hours

#### Certification

<b>Australia</b>	IEC Ex TSA 06.0045X
<b>Europe</b>	-
<b>USA</b>	-