Pempek's revolutionary NEW Pempek OBP-PLUS Machine Control Solution now offers users the ability to configure and modify their own control system, edit operational parameters and operator messages and error messages without having to open the flameproof enclosure.

Pempek's revolutionary NEW Pempek OBP-PLUS Machine Control Solution includes superior diagnostics.

Visible on the machine, a remote IS a tablet, at the surface, or your smartphone.

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)



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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

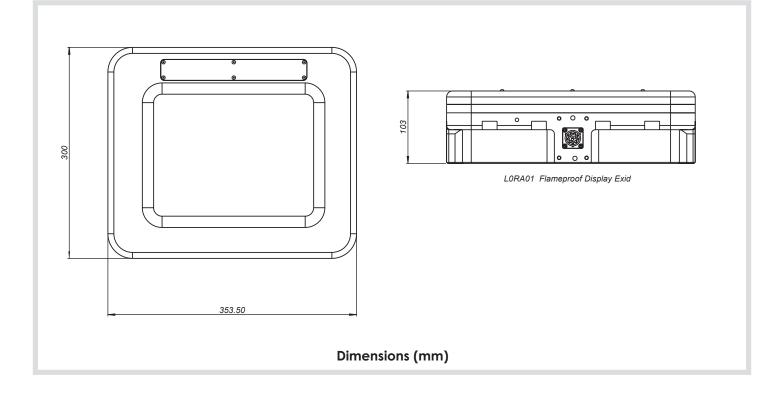
Connector Assembly

Part Number	Description
HORA0101	IEC Flameproof Connector Assembly

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LORA0111 Pempek OBP-PLUS 10.4" Colour Display Module IEC Ex d Flameproof CODESYS 24VDC



Wiring Assignments

PIN	Flameproof Connector Assembly Burndy 12 Way Female Description	Signal
А	Supply Input	24VDC+
В	Supply Input	24VDC-
С	-	-
D	RS-422 RXD -	Communications
Е	RS-422 RXD +	Communications
F	RS-422 RXD -	Communications
G	RS-422 RXD +	Communications
Н	Ethernet RX +	Communications
J	Ethernet RX -	Communications
К	Ethernet TX +	Communications
L	Ethernet TX -	Communications
М	-	-

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LORA0111 Pempek OBP-PLUS 10.4" Colour Display Module IEC Ex d Flameproof CODESYS 24VDC

Electrical Characteristics

Supply	
Voltage	24VDC
Power Consumption	15W typical
Maximum Dissipation	17W

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

Visualisation	
LCD	NEC 10.4" SVGA True Colour
Environmental	

Ingress Protection	IP65
Operating Temperature	Minus 10°C to +75°C1
Humidity	TBA
MTBF	12,000 hours

Certification	
Australia	IEC Ex TSA 06.0045X
Europe	-
USA	-

Datasheet-LORA0111

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