Features

- **Direct PC input**
- **12 in flat panel monitor**
- **Panel mount in Class I, Div 2 areas**
- **Touchscreen options**
- **Antiglare and stainless options**

Function

This product is a high-performance industrial flat panel monitor. It is designed as an operator interface device for continuous use in hazardous locations where Class I, Division 2 certification is required. It incorporates a high-performance, active matrix LCD panel, an optional touchscreen, and will connect directly to any standard analog VGA video signal. It is available in many configurations.

Technical data

Graphics/Video	
Video input	15-pin VGA
Resolutions	800 x 600 (native mode), 640 x 480, text mode, SOG
Maximum resolution	1024 x 768 @ 60 Hz
Active viewing area	12.1 in diagonal
Color depth	18 bit (262 K) color supported in any video mode
Viewing angle	70° horizontal, 45° vertical (up), 55° vertical (down)
Contrast ratio	600:1
Brightness	400 nit
Response rate	15 ms
Back lamp life	50,000 hrs typical half life, replaceable
Touchscreen	
System	Elo TouchSystems AccuTouch, 5-wire resistive system
Connection	RS-232 serial or USB port to host computer via standard cable
Supply	
Power	+12 VDC @ 1.2 A continuous*
Line regulation	+/- 0.2% or better
Load regulation	+/- 5% or better
Connection	180° 5-pin DIN
Mechanical specifications	
Outer bezel dimensions	292 mm x 353 mm (11.5 in x 13.9 in)
Front bezel thickness	2.5 mm (0.10 in)
Total depth	74 mm (2.9 in) w/recessed cable ways
Cut out dimensions	259 mm x 320 mm (10.2 in x 12.6 in)
Mounting	Panel mount
Weight	4.7 kg (10.3 lb)
Protection degree	NEMA Type 4/12 (front face and seals), Type 4X w/ stainless option
Ambient conditions	
Operating temperature	0 °C to +50 °C ambient, no active cooling devices required
Storage temperature	-20 °C to +80 °C
Humidity	5 % to 90 % non-condensing
Shock resistance	50 g 11 ms, all axes
Vibration resistance	5 Hz to 100 Hz, 2g, 19.6 m/s², all axes
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EEC	EN55022A, EN61000-6-2, EN61000-3-2, EN61000-3-3
Low voltage	
Directive 73/23/EEC	EN60950
Data for application in conjunction with hazardous areas	
Approved for	Class I, Division 2; Groups A, B, C, D; T5 temp code
Certification	cULus Listed, E190294
Supplementary information	
Statement of conformity, declaration of conformity, and instructions must be observed. For information, see www.pepperl-fuchs.com.	

An external 12 VDC power supply is required as shown in the specifications. See page 2.

Subject to modifications without notice

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com

Copyright Pepperl+Fuchs

PEPPERL+FUCHS
PROTECTING YOUR PROCESS

1

Ordering information

Pepperl+Fuchs Part Number	Reference Part Number (Christensen Display Products)	Description
DM512-N0-D2-N0-N0	LS12-HZ	12.1 in flat panel monitor – Class I Div 2
DM512-A0-D2-N0-N0	LS12-HZ-A	12.1 in flat panel monitor – Class I Div 2, antiglare
DM512-N0-D2-SS-N0	LS12-HZ-SS	12.1 in flat panel monitor – Class I Div 2, stainless
DM512-A0-D2-SS-N0	LS12-HZ-SS-A	12.1 in flat panel monitor – Class I Div 2, stainless, antiglare
DM512-TA-D2-N0-N0	LS12T-HZ-A	12.1 in flat panel monitor w/ resistive touchscreen – Class I Div 2, antiglare
DM512-TH-D2-N0-N0	LS12T-HZ-HR-A	12.1 in flat panel monitor w/ hardened resistive touchscreen – Class I Div 2, antiglare
DM512-TA-D2-SS-N0	LS12T-HZ-SS-A	12.1 in flat panel monitor w/ resistive touchscreen – Class I Div 2, stainless, antiglare
DM512-TH-D2-SS-N0	LS12T-HZ-SS-HR-A	12.1 in flat panel monitor w/ hardened resistive touchscreen – Class I Div 2, stainless, antiglare
Optional accessories		
PS20-HZ	PS20-HZ	Power supply
PSCBL6*	PSCBL6*	Power cable for customer provided power supply
VCBL6*	VCBL6*	Video cable
SCBL6*	SCBL6*	Serial touchscreen cable
UCBL6*	UCBL6*	USB touchscreen cable
TSP12-5	TSP12-5	Touchscreen protector, (5) pack, DM512 series

* A wide selection of power supplies and cables in a variety of lengths are available. Contact Pepperl+Fuchs for more information.

PEPPERL+FUCHS
PROTECTING YOUR PROCESS