Optically-bonded 7-inch LCD designed for harsh environments

High-brightness screen for full sunlight viewability

Glass display surface offers enhanced clarity and strength

CAN-based display with rich, full-color graphics

HIGH-PERFORMANCE GLASS-FRONT DISPLAY FOR RUGGED EQUIPMENT OF ALL SIZES AND CLASSES

For rugged applications of all sizes, the PowerView 700 is the perfect fit. With a 7-inch LCD screen, operators can get the full view of their equipment on a single all-weather display.

The PV700 is easily viewed in full sunlight and contains an optically bonded LCD inside its IP67-rated case to keep it safe in all weather environments.

Equipped with a high-speed processor, the PV700 delivers seamless graphics, animations and video playback for a rich user experience.

The PV700 is available in glass-front, glove-friendly touchscreen and non-touchscreen models to suit the needs of your application.

BUILT FOR POWERVISION

PowerVision Configuration Studio® software lets programmers design stunning user interfaces, create intelligent applications with scripting and prototype quickly with a vast library of standard engine parameters.
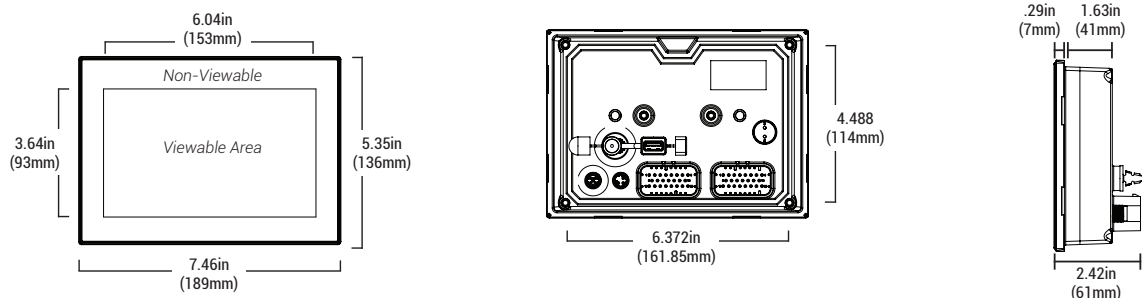
Tier 4 Final Stage IV ready

IP 67

Macquarrie

POWERVIEW® 700 PRELIMINARY

DIMENSIONS

6.04in (153mm)	
Non-Viewable	
3.64in (93mm)	Viewable Area
5.35in (136mm)	
7.46in (189mm)	

4.488 (114mm)

6.372in (161.85mm)

.29in (7mm) 1.63in (41mm)

2.42in (61mm)

PRODUCT SPECIFICATIONS

COMPUTING

PROCESSOR	Renesas® R-Car M2 with Arm® Cortex®-A15 dual-core processor @ 1.5 GHz (32-bit)
SOFTWARE	QNX® Realtime Operating System
STORAGE	8 GB flash memory
RAM	512 MB DDR3-SDRAM
GRAPHICS	Integrated graphics processor

DISPLAY

SCREEN SIZE	7-inch (178 mm)
TYPE	LVDS TFT LCD with LED backlight, 16-bit color
RESOLUTION	800 x 480 (WVGA)
CONTRAST RATIO	Typ. 600:1
BRIGHTNESS	1000 cd/m²
SURFACE	Anti-glare
TOUCH PANEL	Projected capacitive (PCAP) with glove touch

HARDWARE

REAL TIME CLOCK	Available with battery backup
CONNECTORS	(2) AMPSEAL 23 pin (main) (1) M12 5 pin [Ethernet] (optional) (1) M12 3 pin (optional) (1) USB pigtail (1) Antenna connector pigtail (optional)
VIDEO INPUTS	(4) NTSC/PAL (single channel viewable)
AUDIO OUTPUTS	(2) Line Out (optional) (1) Subwoofer (optional)

COMMUNICATION

CAN	(2) CAN 2.0B according to ISO-11898-2; J1939 and proprietary messaging
SERIAL	(1) RS-485 serial (Modbus)
USB	USB 2.0 full speed host
ETHERNET	1 X Ethernet 10/100 Base-T (optional)
WI-FI	802.11 b/g radio (optional)
BLUETOOTH	Fully integrated Bluetooth 2.1, class 1 (optional)

ELECTRICAL

OPERATING VOLTAGE	6 − 36 VDC, reverse polarity protected
INPUTS	(3) Analog 0−5 VDC, 4-20 mA, resistive, 10-bit resolution (5) Discrete digital, active-high (1) Frequency in (2Hz−10kHz) 5V pk-pk min, 120V pk-pk max
OUTPUTS	(1) 500 mA switched low-side (1) Frequency output (2Hz−3KHz)

ENVIRONMENTAL

OPERATING TEMPERATURE	-40°C to +85°C (-40°F to +185°F)
STORAGE TEMPERATURE	-40°C to +85°C (-40°F to +185°F)
PROTECTION	IP66 and IP67, front and back, for outdoor use
VIBRATION	7.86 Grms (5−2000Hz), 3 axes
SHOCK	±50G in 3 axes
EMC/EMI	SAE J1113, ISO 13766, CE per 2014/30/EU

FOR MANUALS, SUPPORT DOCUMENTS, AND WIRING DIAGRAMS PLEASE VISIT:

www.macquarrie.com.au/collections/powerview-displays