## ENABLING OPERATORS TO SENSE, SEE AND KNOW MORE

maxAl<sup>™</sup> 280 CAN Bus Display



Critical vehicle and equipment data is easy to monitor with the maxAl 280. You'll have a high degree of control in a compact, cost-effective package, with multiple options to customize the display:

- maxAl Configurator Tool: Select the parameters you want to display and your engine monitoring data will autopopulate.
- maxAl Design Studio: Personalize your display to fit your needs with our software development kit.
- maxAl Specialized System: Partner with our engineering team to develop a custom interface that meets your specific application needs.

Complimentary to our full CAN Bus and DDBI portfolio, the maxAl 280 has five configurable inputs and four outputs to fit your needs for ideal flexibility. The integrated Bluetooth® capability means the display can receive wireless updates, and you can troubleshoot the system without removing the device. A micro-controller ensures access to engine performance data in seconds.

# maximatecc.



## maxAI 280: DELIVERING HIGH FLEXIBILITY AND CONTROL

maximatecc is continually focused on innovative ways to communicate critical data using the most comprehensive designs. As electrification increases in many markets and OEMs adopt battery management systems, you'll find the maxAl 280 provides the right real-time information, including key engine parameters, warnings and system messages.

Two available models:

- maxAl 280: One CAN channel, two configurable inputs and one output
- maxAl 280b: One CAN channel, five configurable inputs, four outputs and Bluetooth connectivity

Both models include these display features:

- Vibrant 2.8-inch TFT screen with 240x320 resolution and wide viewing angles
- Multiple screens with up to four parameters
- Screen setup via configurable application software
- Boots up in less than 3 seconds
- Amber and red dead front LED warning indicators
- 250 or 500 Kbps baud rate detection
- IP67 rating (front and rear) with tempered glass lens

### maxAI CAN BUS DISPLAY SERIES

The maxAI CAN Bus Displays offer a range of customizable solutions to maximize your gauge and display experience. Built for rugged wear and tear, the maxAI will get you the information you need when you need it.





maxAI 430 & 430V



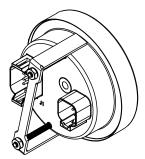
maxAl 430i & 430iV

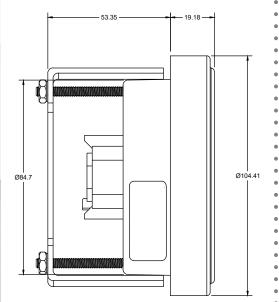
maxAl 130

## maxAI 280 PRODUCT SPECIFICATIONS

Processing			
Main Processor	Micro-controller based on ARM®		
Main Hocesson	Cortex <sup>®</sup> -M7 32-bit		
Internal Memory	1MB RAM, 2MB Flash		
External Memory	16MB Flash, 64KB EEPROM		
Display			
Туре	Premium TFT		
Size & Resolution	2.8" diagonal, 240 x 320 pixels, IPS full view angle		
Color Depth	18-bit RGB		
Contrast Ratio	800:1		
Brightness	600 NITS		
Interfaces			
Keypad	4 button keypad, can be used to navigate or select menu items		
Connectors	maxAl 280 & 280b: 1 Deutsch 8-Pin connector maxAl 280b: Add'l. 1 Deutsch 6-Pin connector		
CAN	1 CAN, J1939, bit rate config. 5Mbps		
Inputs	maxAl 280: 2 config. inputs maxAl 280b: 5 config. inputs: voltage, resistance, frequency and digital		
Outputs	maxAl 280: 1 config. output maxAl 280b: 4 config. outputs		
Power Supply	12- and 24- volt systems, 9-32 VDC		
Warning Lights	Amber/Red dead-fronted LED indicator		
Bluetooth	maxAI 280b: For wireless configuration		
Software			
Operating System	Optimized Free RTOS based on MIT's open source standard		
Application Software	Freely programmable toolchains, primarily programmed via GNU C/C++ and supports application modules and library additions, JTAG/serial wire debugging		
Environment			
IP Class	IP67 (front and rear)		
EMS Conformity	ISO 13766 (emissions & immunity)		
SAE Standard	Vibration, UV, salt spray and chemical		
Temp. Range	-20 to 70°C (operational) -30 to 80°C (storage)		
Casing			
Housing Material	Black PC/ABS plastic, UV resistant		
Cover Lens	Tempered glass		
Mech. Installation	Flush/panel mounting, SAE 3 <sup>3</sup> / <sub>8</sub> " standard		
W x H x D (in/mm)	4.11/104.41 x 4.11/104.41 x 2.86/72.53		
Weight (oz/g)	7.27oz/206g		



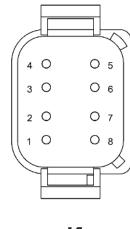




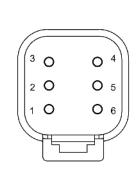
## THE DIFFERENCE IS IN THE DETAILS

Put the maxAl 280 engine or battery monitoring display to work for you. Contact us today at info@maximatecc.com.

J1 Connector pinout (maxAI 280 and maxAI 280b)			
#PIN	ТҮРЕ	STATE	
J1.1	Power	Battery+	
J1.2	Power	Key on	
J1.3	CAN	CAN low	
J1.4	CAN	CAN high	
J1.5	Config. input	Voltage/digital/resistance/freq.	
J1.6	Config. input	Voltage/digital/resistance/freq.	
J1.7	Digital output	Low/high side driver	
J1.8	Power	Ground	
J2 Connector pinout (maxAl 280b only)			
#PIN	ТҮРЕ	STATE	
J2.1	Digital output	Low/high side driver	
J2.2	Digital output	Low/high side driver	
J2.3	Config. input	Voltage/digital/resistance/freq.	
J2.4	Config. input	Voltage/digital/resistance/freq.	
J2.5	Config. input	Voltage/digital/resistance/freq.	
J2.6	Digital Output	Low/high side driver	



J1



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**J2** 

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maximatecc specializes in operator-machine interface solutions for critical environments. We support industrial machinery OEMs and partners globally with a broad portfolio of products and services. Through technology, engineering expertise and operational excellence, we make machines smart, safe and productive.



Enabling operators to sense, see and know more