

With four different models, the maxAl 430 series is our most advanced engine monitoring system. Ensure a high degree of control and flexibility 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.

A rugged, all-in-one instrumentation display, the maxAl 430 series is ideal for vehicles put to the test in the most demanding applications, from agriculture and construction equipment to large specialty vehicles. The vibrant 4.30-inch TFT display provides the highest quality visuals to optimize performance and efficiency. Use the integrated Bluetooth® capability to receive wireless updates or trouble shoot the system without removing the device.



430i/430iv





maxAl 430 series: Optimal control and customization

maximatecc is continually focused on innovative ways to communicate critical data using the most comprehensive designs. Complimentary to our full CAN Bus and DDBI portfolio, the maxAl 430 series has five informative display screens, and up to 20 discreet, exterior, LED warning icons, all integrated into the outside perimeter of the display. A flat screen, dead front, black-lens format ensures better visibility. We've also integrated a backup camera and gauges right on the display screen.

Four available models:

- maxAl 430: Base model
- maxAl 430i: Enhanced with 20 dead-fronted LED warning Icons
- maxAl 430v: Upgraded with video input for back-up camera and Bluetooth compatibility
- maxAl 430iv: Includes features of all models

Display features:

- Primary engine monitoring using two CAN channels and five analog inputs
 - 250 or 500 Kbps baud rate detection
 - Boots up in less than 3 seconds
- Designed for use inside or outside cab
- Displays up to five screens, each with five parameters and associated information
- Configurable application software for display screen and warning light setup, no programming needed

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.





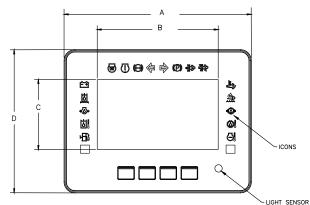


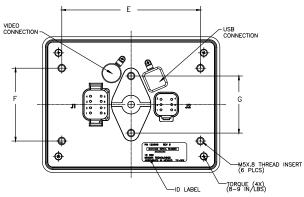
maxAl 200

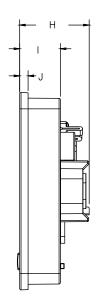
maxAl 280

maxAI 430 PRODUCT SPECIFICATIONS

Processing			
Main Processor	Micro-controller based on ARM® Cortex®-M7 32-bit		
Internal Memory	1MB RAM, 2MB Flash		
External Memory	2MB SDRAM, 16MB Flash, 64KB EEPROM		
Display			
Туре	Premium TFT		
Size & Resolution	4.3" diagonal, 480x272 px, 75x75x75 multi-viewing angle		
Color Depth	24-bit RGB		
Contrast Ratio	800:1		
Brightness	1000 NITS		
Dimming	10-100%, manually controlled via keypad		
Interfaces			
Keypad	4 button keypad: navigate/select menu items		
CAN	2 CAN, J1939, standard 250 kbps or 500 kbps		
USB	USB 2.0 slave (Boot loader and SW configuration support)		
Bluetooth	430v, 430iv only: Bluetooth 4.2 (SW config. support)		
Video Input	1 analog PAL/NTSC (rear backup camera)		
Power Supply	12 and 24 volt systems, 9-32 VDC		
Connectors	1 Deutsch DT06-08SA connector 1 Deutsch DT06-6S connector		
Warning Lights	1 warning light indicator (amber and red)		
Warning Icons	430 & 430v: 21 on-screen icons. 430i & 430iv: 20 LED warning lights, black dead front		
Inputs	5 configurable inputs: voltage, resistance frequency and digital, one 4-20mA current input		
Outputs	1 config. output, low-side mode up to 1A, high-side mode up to .5A		
Software			
Operating System	Optimized FreeRTOS based on MIT's open source std.		
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) & IP66 (rear with connectors)		
EMS Conformity	ISO 13766 (emissions) SAE J1113-21 (immunity)		
SAE Standard	Vibration, UV, salt spray and chemical compatibility		
Temp. Range	-20 to 70°C (operational) -30°C to 85°C (storage)		
Casing	Disal-DC/ADC slasfia 10/ssci la l		
Housing Material	Black PC/ABS plastic, UV resistant		
Cover Lens	Polycarbonate with anti-scratch and anti-fog treatment		
Mech. Install.	Flush/Panel mounting		
W x H x D (in/mm)	430, 430v: 5.162 (131.11) x 4.29 (108.97) x 1.63 (41.33) 430i, 430iv: 5.940 (150.88) x 4.54 (115.32) x 1.63 (41.33)		
Weight (oz/g)	430, 430v: 9.8oz/277g; 430i, 430iv: 10.5oz/293g		





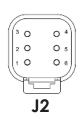


	430i/	430iv	430/430v	
	inch	mm	inch	mm
Α	5.940	150.88	5.162	131.11
В	3.775	95.89	3.775	95.89
С	2.151	54.64	2.151	54.64
D	4.540	115.32	4.290	108.97
E	4.650	118.11	4.016	102.01
F	2.440	61.98	1.917	48.69
G	1.910	48.51	1.910	48.51
Н	1.627	41.33	1.627	41.33
I	0.953	24.21	0.953	24.21
J	0.200	5.08	0.200	5.08

THE DIFFERENCE IS IN THE DETAILS Put the maxAl430 series engine or battery monitoring display to work for you. Contact us today at info@maximatecc.com.

W : 1 (400: 1400: 1)				
Warning Icons (430i and 430iv only)				
Location (Color)	Icon			
LD1 (Amber)	Open			
LD2 (Amber)	Low fuel			
LD3 (Amber)	Hydraulic oil temp.			
LD4 (Red)	Eng. oil pressure			
LD5 (Amber)	Hydraulic oil filter			
LD6 (Red)	Battery charging status			
LD7 (Amber)	Eng. start aid			
LD8 (Amber)	Eng. malfunctioning			
LD9 (Red)	Brake system pressure			
LD10 (Green)	Left turn			
LD11 (Green)	Right turn			
LD12 (Red)	Parking brakes			
LD13 (Amber)	Eng. emissions filter			
LD14 (Amber)	Eng. emissions filter disabled			
LD15 (Red)	Eng. emissions temp.			
LD16 (Amber)	Diesel exhaust fluid			
LD17 (Red)	Transmission oil pressure			
LD18 (Amber)	Transmission oil temp.			
LD19 (Amber)	Eng. coolant temp.			
LD20 (Amber)	Open			





Connector Pinout				
#Pin	Туре	State		
J1.1	Power	Battery +		
J1.2	Power	Ignition		
J1.3	CAN	CAN 1 low		
J1.4	CAN	CAN 1 high		
J1.5	CAN	CAN 2 high		
J1.6	CAN	CAN 2 low		
J1.7	Digital Output	Low/high side driver		
J1.8	Power	Ground		
J2.1	Config. input	Voltage/digital/resistance/freq.		
J2.2	Config. input	Voltage/digital/resistance/freq.		
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	Input	4-20mAmp		

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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

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