



# Maximum performance in the smallest of spaces

The 4.3" ecomatDisplay sets new standards

- High-brightness display for maximum readability even in daylight conditions
- Ideally suited for demanding tasks thanks to high computing power and memory capacity
- Maximum freedom of communication thanks to the support of multiple protocols



**ifm** – close to you!

**New standard in the compact class**

Whenever efficient communication, precision and performance in the smallest of spaces are required, the most compact member of the ecomatDisplay family is the perfect choice. Because the 4.3-inch HMI makes no compromises when it comes to human-machine interaction: 16.7 million colours, high-resolution display and good readability even at extreme angles or in extreme lighting conditions ensure clear information exchange in any situation. Versions with RGB keypad or capacitive touch screen are available for easy operation in any situation.

**Easy to connect, economical, communicative**

Numerous connection options and a wide range of supported communication protocols allow for simple and extensive integration of the ecomatDisplay into the machine. CODESYS 3.5 and the comprehensive ifm library of software modules enable convenient visualisation of the information. Besides, the Linux-based operating system can be used for customisation, such as visualisation via QT. The powerful DualCore processor and the 1 GB DDR4 RAM ensure reliable processing of all data and control commands. For all these technical feats, the compact HMI requires less than ten watts of power.

**Tough**

The robust housing, already known from other ecomatDisplays, provides the 4.3" device with maximum protection against external influences, making it ideally suited for use in extreme working environments.

Connections	Input	Order no.
1x CAN, 1x Ethernet	RGB keypad	<b>CR1140</b>
1x CAN, 1x USB	RGB keypad	<b>CR1141</b>
1x CAN, 1x Ethernet	Touch display	<b>CR1142</b>
1x CAN, 1x USB	Touch display	<b>CR1143</b>
1x CAN, 1x Ethernet	none, only display	<b>CR1144</b>

Technical data		
Processor		ARM dual core, 1.4 GHz
Memory / RAM		4 GB / 1 GB DDR4
Retain variables	[kB]	8
Communication protocols		CAN, CANopen, J1939, Modbus TCP, EtherNet/IP, OPC UA
Display resolution	[pixel]	800 x 480
Display brightness	[cd/m <sup>2</sup> ]	1,000
Real-time clock		battery-buffered
Power consumption	[W]	5...8
Protection rating		IP67

**BEST FRIENDS**

We reserve the right to make technical alterations without prior notice. · 11.2024  
ifm electronic gmbh · Friedrichstr. 1 · 45128 Essen



**ecomatBasic**  
Controller with H-bridge, 32 inputs and outputs



**ecomatPanel**  
Keypad with rotary button and six keys, backlit



**ioControl**  
Decentralised connection of sensors, freely programmable



For further technical details, please visit: [ifm.com/fs/CR1140](http://ifm.com/fs/CR1140)