



# Strong, safe, multifunctional

The new generation of ecomatBasic controllers

- Powerful safety controller for mobile machines
- TÜV-certified library for simple implementation of safety-related functions\*
- Multifunctional inputs and current-controlled outputs ensure maximum adaptability



**ifm** – close to you!

Interfaces	Safe inputs (analogue / resistor / frequency)	Outputs (of which safe)	Order no.
2x CAN, 1x Ethernet	16 (8/4/4)	16 (4)	<b>CR413S</b>
2x CAN	12 (4/4/4)	12 (-)	<b>CR403S</b>

Software library	Order no.
TÜV-certified, with safety POUs for CR413S and CR403S; workstation licence	<b>CP100S*</b>

Common technical data		
Operating voltage	[V]	8...32
Nominal voltage	[V]	12 / 24
Programming language		CODESYS 3.5
Safety level		SIL 2; PL d; AgPL d; ASIL C
Safety interfaces	CAN: Ethernet:	CANopen safety J1939 safety CIP safety
Protection class		IP20

### Two controllers in one

The new generation of ecomatBasic controllers has everything you need in terms of performance and flexibility to reliably control mobile machines. In addition to a controller for standard applications, the ecomatBasic also offers a separate controller for safety-related functions.

### More power – also for retrofitting

With up to 16 multifunctional inputs and outputs each, the controller is designed to meet any customer-specific requirement – especially as the computing power has been more than doubled compared to the first generation. Utilising this extra performance and the convenience of CODESYS 3.5 in existing machines is easy: The dimensions of the CR403S are identical to those of the BasicController series.

### Certified safety

Whether driverless transport system or mobile machine operated by a person: Safety comes first. Each input of the ecomatBasic can be used within the scope of functional safety. Besides, up to four safe outputs are available (CR413S).

In order to use safety-related functions, the optional TÜV-certified software library offered by ifm is required. It includes a large number of safety POUs with which the most common requirements can be easily and safely implemented\*.

\*available as from Q1 2025

## BEST FRIENDS



### mobile IoT gateway

For mobile transmission of data to the cloud



### ioControl

Decentralised connection of sensors, freely programmable



### Robust HMI

4.3-inch dialogue module with integrated controller



For further technical details, please visit: [ifm.com/fs/CR413S](http://ifm.com/fs/CR413S)