

# Errorlist

EFOY Hydrogen Fuel Cell 2.5 48V  
EFOY Hydrogen Controller



Version: 1.0 (Jan 2022)

Display <sup>1</sup> Controller	Display <sup>2</sup> Fuel Cell	Type	Identifier <sup>2 3</sup>	Description	Remedial action
LED yellow		System warning	EC_0001	System	
			EC_0002	Operating parameter warning	
			EC_0101.Tank_nn	Low storage pressure Threshold value adjustable via web tool	Refill H <sub>2</sub> storage or change H <sub>2</sub> bottles
			EC_0102.Tank_nn	H <sub>2</sub> storage empty	
			EC_0201	High hydrogen inlet pressure, >31bar	Check the hydrogen supply line
			EC_0203	Low hydrogen inlet pressure, <7bar	
			EC_0401	Air supply >45°C	
			EC_0402	Air supply <-30°C	
			EC_1111	Nominal system power of Redundancy Fuel Cell only partially available	Troubleshooting required on Fuel Cell
			EC_1301	Cabinet room temperature >45°C	
			EC_1302	Cabinet room temperature <0°C	
			EC_1401.Rack_nn	Temperature pressure reducer >45°C	
			EC_1402.Rack_nn	Temperature pressure reducer <0°C	
			EC_1501	Temperature battery >45°C	
			EC_1502	Temperature battery <0°C	
			EC_1601	Cabinet room ventilation defect	
			EC_1901	Controller battery empty	Battery replacement by SFC service
			EC_2001.Rack_nn	Internal cabinet temperature >45°C	
			EC_2002.Rack_nn	Internal cabinet temperature <0°C	
			EC_2101	Battery deep discharge/ Overvoltage protection	Check and if necessary charge battery
EC_2201	Low-Voltage-Disconnect	Reduce load, reset via reset function in the Webtool			
EC_2301	Overload detected	Reduce load			

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LED yellow	LED yellow	System warning, Fuel Cell warning	EF_0201.EA_nn	Fuel Cell	If necessary check of Fuel Cell insertion by SFC Service
			EF_0614.EA_nn	Operating parameter warning	
	LED red	System warning,  Fuel Cell alarm	EF_0202.EA_nn EF_0204.EA_nn EF_0205.EA_nn EF_0206.EA_nn EF_0402.EA_nn EF_0403.EA_nn EF_0405.EA_nn EF_0406.EA_nn EF_0407.EA_nn EF_0606.EA_nn	BZ-malfunction of the Fuel Cell insertion	Reset via Webtool, If necessary check of Fuel Cell insertion by SFC Service
			EF_0502.EA_nn	System operating pressure too low	Adjust Controller setting in the system cabinet after consultation with SFC Service
EF_0504.EA_nn	System operating pressure too high				

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LED yellow	LED red	System warning,  Fuel Cell alarm	EF_0701.EA_nn EF_0703.EA_nn	BZ-malfunction of the Fuel Cell insertion	Reset via Webtool, If necessary check of Fuel Cell insertion by SFC Service Reset via Webtool,	
			EF_0704.EA_nn EF_0802.EA_nn EF_0901.EA_nn EF_0902.EA_nn EF_0903.EA_nn EF_0904.EA_nn EF_0905.EA_nn EF_1001.EA_nn EF_9701.EA_nn EF_9702.EA_nn EF_9703.EA_nn EF_9704.EA_nn EF_9902.EA_nn			
			EF_1101.EA_nn			Insufficient air flow for Fuel Cell initialization
			EF_0602.EA_nn EF_0603.EA_nn EF_0615.EA_nn EF_0801.EA_nn EF_0803.EA_nn			BZ-malfunction of the Fuel Cell insertion
			EC_9901.EA_nn	Internal communication error	Reset function via Webtool, If necessary, system check by SFC Service If necessary, pull out the Fuel Cell unit and push it back into the cabinet according to the installation instructions.	

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LED red	all LED's red	System alarm	EC_0003	System error	System inspection by SFC Service, Reset function via Webtool
			EC_0004		
			EC_0005		
			EC_0801.Rack_nn	System error	System inspection by SFC Service, Controller restart
			EC_0804.Rack_nn		
			EC_0805.Rack_nn		
			EC_0807.Rack_nn		
			EC_0808.Rack_nn		
			EC_1602	Failure Fuel Cell ventilation	
			EC_1701	Failure cabinet ventilation	
EC_0302.Rack_nn	System operating pressure too low	Correct Controller setting in the system cabinet according to installation instructions			
EC_0304.Rack_nn	System operating pressure too high	Controller restart			
EC_0202	Hydrogen inlet pressure too high, >33bar	Check the hydrogen supply line, Reset via Webtool			
EC_0204	Hydrogen inlet pressure too low, <4bar	Check the hydrogen supply line, Reset via Webtool			
EC_1112	Nominal system power of Redundancy Fuel Cell not available	Troubleshooting required on Fuel Cell, Reset via Webtool			
EC_2102	Battery deep discharge-/ Over voltage protection	Charge battery Reset via Webtool			

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Display <sup>1</sup> Controller	Display <sup>2</sup> Fuel Cell	Type	Identifier <sup>2 3</sup>	Description	Remedial action
LED yellow	-	External warning	EX_0101	Rectifier: no critical alarm	Check rectifier
			EX_0102	Rectifier: critical alarm	Check rectifier
			EX_0201	Rectifier: no critical alarm	Check rectifier
			EX_0202	Rectifier: critical alarm	Check rectifier Check DCDC converter
			EX_0601	Work load of rectifier >80% and fuel cell in operation at the same time	Install further rectifier modules
			EX_0901	Inverter: no critical alarm	Check inverter
			EX_0902	Inverter: critical alarm	Check inverter

<sup>1</sup> Display on the unit. / Retrievable via system Webtool.

<sup>2</sup> Retrievable via system Webtool.

<sup>3</sup> The appendix *EA\_nn* indicates, which Fuel Cell is affected, *nn* represents the no. of the Fuel Cell

The appendix *Rack\_nn* indicates, which rack is affected, *nn* represents the no. of the Rack

The appendix *Tank\_nn* indicates, which tank (H<sub>2</sub> storage) is affected, *nn* represents the no. of the tank (H<sub>2</sub> storage)