



INCAS™

Inverter Calibration System. For EV car's programmable current sensors.



INCAS™ is a machine designed for the mass production calibration of automotive programmable current sensors installed on hybrid and electric vehicles.

INCAS™ is a turnkey solution, that allows an integration into automatic production lines.

MAIN FEATURES:

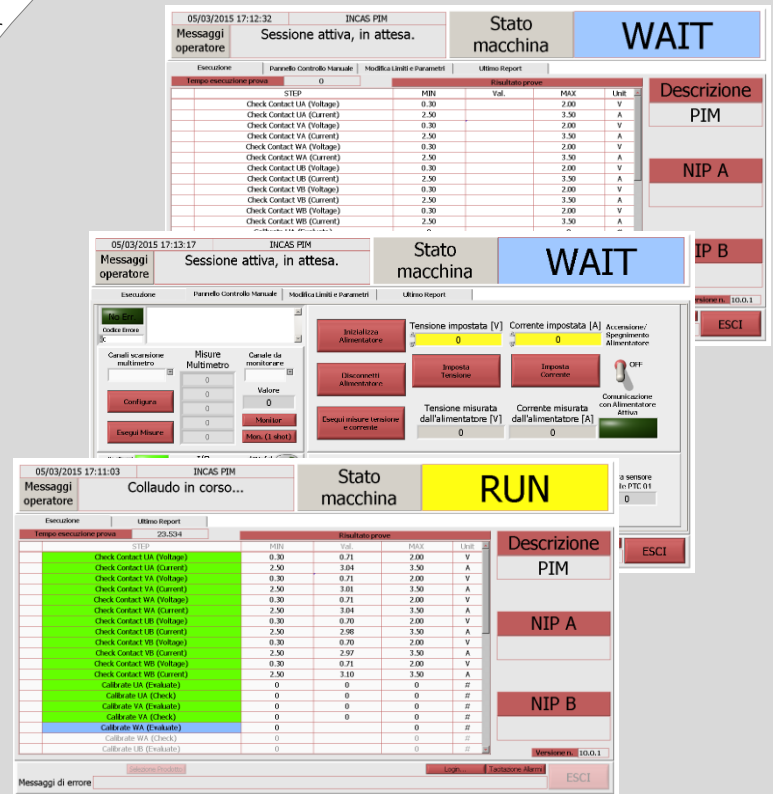
- ❑ Built-in MQTT 5.0 client for Industry 4.0 conformance
- ❑ Interface for direct coupling with vehicle inverter.
- ❑ Automatic check of electrical connection before starting calibration.
- ❑ Full memory access to sensor's parameters.
- ❑ Reading unit for analog, PWM, Sent sensor output.
- ❑ Compliant with SMEMA 1.2 interface for interfacing with other production line's modules.
- ❑ Machine automation controlled by PLC
- ❑ Controller to exchange data in Profinet, Profibus, Ethercat, Ethernet/IP, Modbus TCP/IP protocols.
- ❑ Database for traceability

TECHNICAL SPECIFICATIONS

Specification	Details	Values
Current source	Output Current Current Accuracy	170 A (up to 500 A available on request) 0.03%
Sensor Measurement Unit	Output Voltage Voltage Accuracy Measurement Rate. Output type.	5 V DC 0.02% (for analog output) 50 measurements per second. Analog - PWM - SENT (SAE J2716)
Power supply	Voltage Frequency	400 VAC 50 Hz
Dimensions	WxHxD : 2000 x 2200 x 2000 mm	Weight 400 Kg

SOFTWARE FEATURES

- Applicative software with easy user interface displaying calibration sequence with limits and measured values, pass-fail indication for each step with different background color
- Multi-language interface, with user editable labels and messages
- Manual operation panel and sequence editor under password
- Customizable sequence to perform different tests configurations
- Sensor EEPROM parameters fully customizable and Memory dump with log for each part.
- Test Report saved for each part
- Database for Traceability (MySQL Database; Tool for Statistic Analysis)



APPLICATIONS

- Mass production of Electric Vehicles components like Inverter, HV Battery Junction Box (eBOX)

CONFIGURATIONS AND OPTIONS

Product Code	Description
INCAS-3IM	Suitable for single 3 phase Inverter with Melexis sensors series MLX-9120x
INCAS-6IM	Suitable for dual 3 phase Inverter with Melexis sensors series MLX-9120x
INCAS-3IT	Suitable for single 3 phase Inverter with TDK-Micronas sensors series CUR 423x
INCAS-6IT	Suitable for dual 3 phase Inverter with TDK-Micronas sensors series CUR 423x