



# I4GEN RANGE

Multi-touch screen color display & complete monitoring software

The **i4Gen range** is a user interface made by **CRE TECHNOLOGY** to offer users a complete monitoring of **CRE TECHNOLOGY** controllers.

The unit hardware is a multi-touch screen color display developed for harsh environment and industrial areas, providing access to all controllers' data for control and measurement.

With our advanced touch screen panel, it is possible to manage remote control and monitoring, through an internet access (Wifi – LAN connection), with ZOHO assist platform, and to use e-mail services, for alarms/faults management.



**I4GEN.7"**  
TOUCHSCREEN & COLOR HMI



**I4GEN.10"**  
TOUCHSCREEN & COLOR HMI



**I4GEN.15"**  
TOUCHSCREEN & COLOR HMI

## FEATURES & SPECIFICATIONS

### CONTROL AND MANAGEMENT

#### Direct display

The **i4Gen** is able to display information from 1 to 32 controllers using the Ethernet connection and shows a basic overview of the power plant by using controller CANbus data when applicable.

#### Single line diagram & SCADA

The **i4Gen** now offers you the display of the single line diagram of your complete power plant, as well as the production curves of each source. It allows monitoring and global control just with settings of the controllers.

#### Easy Connect

This function permit to quickly switch the connection between controllers. Automatically detects CRE TECHNOLOGY controllers on an Ethernet network. It allows to automatically configure CRE TECHNOLOGY controllers IP address to be able to access them with the current network configuration.

#### Multi user display

Several **i4Gen** can be securely connected by an Ethernet hub to a single controller (or a group of controllers). An **i4Gen** display has two Ethernet communication ports. Easy to use for redundancy application multi-level access or long-distance monitoring panel. One **i4Gen** display can also be connected to different and several COMPACT platforms.

#### Internet connection

With WIFI connection, or LAN cable connexion, the **i4Gen** can be easily connected on internet, to manage remote monitoring or remote control, and emails management.

#### EVENTS DISPLAYED/RECORDED

An innovative feature will turn major events into 3D graphical object display, to warn the operator about an important event and to facilitate immediate diagnosis (ex: coolant tank will light up in red in case of coolant temp fault or in orange in case of coolant temp alarm). An event recorder is also available on a dedicated display page, indicating time stamp, status, acknowledgment and corresponding variable; the event page can be filtered for diagnosis and investigation of selected variables.

#### LCD Display Panel

- IP Front: IP65

- Color, touch screen, capacitive,
- **Display active screen size:**
  - i4Gen.7": 152.4 x 91.44mm (6 x 3.6in)
  - i4Gen.10": 257.1 x 159.7mm (10.1 x 6.29in)
  - i4Gen.15": 345.23 x 194.54mm (13.59 x 7.63in)
- Aspect ratio:
  - i4Gen.7": 16:10
  - i4Gen.10": 16:10
  - i4Gen.15": 16:9
- **Physical resolution:**
  - i4Gen.7" & i4Gen.10": 1280x800 pixels
  - i4Gen.15": 1920x1080 pixels
- Colors displayed: 16.2M
- **Brightness:**
  - i4Gen.7" & i4Gen.10": 400cd/m<sup>2</sup>
  - i4Gen.15": 450cd/m<sup>2</sup>
- Contrast: 800:1
- Typical reaction time Tr/Tf: 30ms
  - i4Gen.7": 13ms
  - i4Gen.10": 30ms
  - i4Gen.15": 35ms
- **Visual angle horizontal/vertical:**
  - i4Gen.7": 176/176°
  - i4Gen.10" & i4Gen.15": 170/170°
- Backlight/Backlight lifetime: LED/20,000h
- Touch Technology: Projected capacitive 10-Point Multitouch
- Surface Hardness: 6H

### OPERATION / MECHANICAL / ENVIRONMENT

- Operating temperature: -10...60°C (14...140°F)
- Humidity: 5...80%
- **Net weight:**
  - i4Gen.7": 1kg (2.20lb)
  - i4Gen.10": 2kg (4.41lb)
  - i4Gen.15": 8.8kg (19.40lb)
- **Sizes:**
  - i4Gen.7": LxWxH: 190,40x132,44x51,70mm (7.5x5.2x2in)
  - i4Gen.10": LxWxH: 268,49x186,5x59,7mm (10.6x7.36x2.36in)
  - i4Gen.15": LxWxH: 398,81x249,12x68,80mm (15.7x9.8x2.7in)
- Material: Aluminium/Iron
- Quad core processor
- Mounting VESA 100

### POWER

- Working power:
  - i4Gen.7": 12VDC
  - i4Gen.10" & i4Gen.15": 9...36VDC
- Reverse polarity protection (with convertor provided)
- Overload protection (with convertor provided)

### EXTERNAL CONNECTORS

#### For i4Gen.7"

- 2 x USB 3.0
- 1 x Ethernet (LAN)
- 1 x WIFI (VLAN)
- 1 x DC-In (connectors screwable): 12VDC
- 1 x On/Off button
- 1 x RS485 port for RTU modbus

#### For i4Gen.10" and i4Gen.15"

- 4 x USB 3.0
- 2 x Ethernet (LAN)
- 2 x WIFI (VLAN)
- 1 x DC-In (connectors screwable): 9...36VDC
- 1 x On/Off button
- 2 x RS485 port for RTU modbus



#### Part number:

- i4Gen.7": A56V0-07-00 (Compact Platform)**
- i4Gen.10": A56V0-10-00 (Compact Platform)**
- i4Gen.15": A56V0-15-00 (Compact Platform)**

### RELATED PRODUCTS & CABLES

- All 56-xx & A532xx references controller
- Ethernet cable – Ref A53W1
- Ethernet switches - Ref EDS-208A



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## APPLICATIONS

- Remote display, with touch screen and colors technology,
- Single line diagram & SCADA mode
- Remote monitoring with ZOH0 assist through internet access (WIFI or LAN cable),
- Emailing management for alarms and defaults management,
- Adding the RS485/ RTU ModBus on COMPACT platform.



## REMOTE MONITORING/CONTROL AND EMAILING MANAGEMENT

