IPEhub2 + IPEmotion App

Wireless CAN-Gateway

▸ Wireless LAN device according to WiFi 802.11 b/g (2.4 GHz supported)

▸ External interface providing 2 galvanically isolated CAN bus inputs (ISO 11898-2)
  for data streaming to mobile devices using the IPEmotion App

▸ Access Point mode with DHCP server

▸ Optional storage to internal SD card (CAN trace logging)
  Option 1: CAN trace storage on internal SD card (1 GB card included)
  Option 2: WiFi interface incl. IPEmotion App for mobile device (Android operating system)

▸ Easy configuration through web interface using WiFi or LAN

▸ 2 multicolor LEDs: WiFi (signal strength), Data storage (memory usage)

▸ CAN2 with software selectable termination resistor

▸ Encrypted transfer of measurement data (IPEhub2 < > Tablet) using WPA2
  Configuration data encryption can be activated by IPEmotion

▸ Compact and rugged aluminum enclosure (M2-Series)

General	
Voltage supply	9 V_{DC} to 36 V_{DC} (Switch-off for voltage < 6 V)
Power consumption, typical	4.0 W
Operating temperature range	-40 °C ... +85 °C (-40 °F ... +185 °F)
Storage temperature range	-40 °C ... +95 °C (-40 °F ... +203 °F)
Relative humidity	5 ... 95 % without condensation
IP-Code	IP 54 (ISO 20653 - 2013)
Dimensions	W106 mm x H43 mm x D62 mm (W4.17 in x H1.69 in x D2.44 in)
Weight	360 g (0.79 lb)
Interfaces / Storage	
CAN	High Speed up to 1 MBit/s acc. to ISO11898-2
LAN / Wireless LAN	Fast Ethernet 100Base-TX / WiFi 802.11 a/b/g
SD memory card	1 GB (included), optional 2/ 4/ 8 GB
Connectors, Cabling	
CAN 1 (D Sub) CAN 2 (D-Sub, M-CAN) PC LAN	600-580.xxx SUB D/S SER CAN Cable open 620-560.xxx M-CAN Cable (CAN, PWR) 620-680.xxx IPEhub2 PC Kabel RJ45
WiFi antenna (standard male connector)	SMA(R)-UFL
LED status indication	
Device status CAN bus (CAN 1, CAN 2) Termination CAN 2 PC link status / WiFi status WiFi signal strength SD memory usage	Power supply, saving, upload, update Communicaton active/ inactive Resistor switched on/switched off Connection active/inactive Green: > 50 %, Yellow: 50 ... 5 %, Red: < 5 % Green: < 50 %, Yellow: 50 ... 75 %, Red: > 75 % in use

IPEhub2 + IPEmotion App

IPEmotion App – Display System

The IPEmotion App is an Android based measurement data display for smartphones and tablets. The app is designed to show live data measurements from IPEhub2 and data loggers. The app display instruments (GUI) are configured with the data acquisition software IPEmotion and automatically transferred to the tablet over WiFi network. The app requires IPEhub2 as access point system and as data source either for CAN bus measurements with IPEhub2 or in the context of a display system for data loggers called IPEconnect.
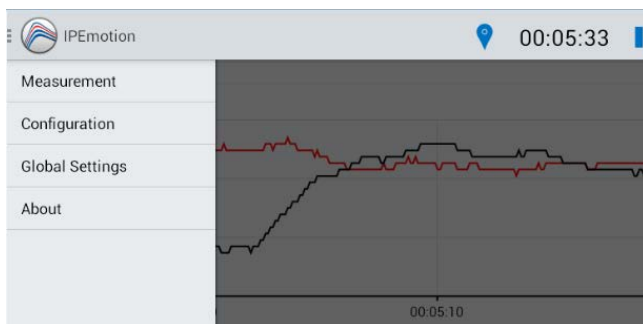
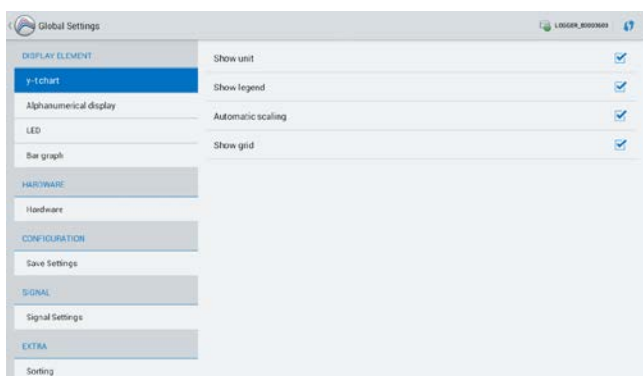### Summary of technical features of the App:

▸ Android based App for operating system 4.0 or higher.
▸ Default display configuration created with IPEmotion.
▸ Local display and instrument configuration on tablet is supported too.
▸ Display of up to 250 measurement channels.
▸ Display system for IPEhub2 Can measurements and for data loggers.
▸ 4 display instruments (yt-charts, bar graphs, alphanumerical instrument, LED).
▸ 20 display pages with customizable page layouts.
▸ WPS button to establish WiFi connection to tablet / smartphone.
▸ Encrypted file and data transfer between IPEhub2 and app.
▸ Trigger function to active data storage on IPEhub2.
▸ Add marker comments to IPEhub2 data files.
▸ All channel PDF signal validation report.

IPEmotion App Screenshots

Main navigation

Instrument overview

Settings

PDF report