## iKAN-116/iKAN-124
### Industrial Modbus LED Display

## ⊞ Features

- Web-based user interface
- Supports multiple languages
- 7-color display with a text height of 16 cm
- Able to store up to 64 common messages and 10 instant messages
- 168 variables available for displaying real-time data in message
- Supports Modbus TCP/RTU slave protocols
- Built-in RTC (Real Time Clock )
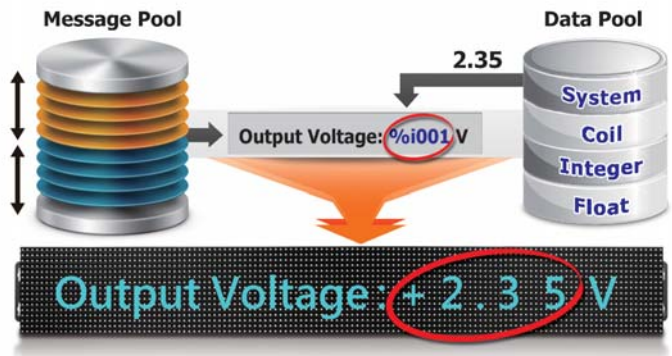- Can be remotely controlled via PLC, PC and smart phone

## Introduction

The iKAN-116 and the iKAN-124 are industrial LED message displays that deliver industrial-grade anti-noise capabilities, as well as reliability and stability. Both are suitable for indoor areas and provide a single line of 8 (iKAN-116) or 12 (iKAN-124) Unicode characters in multiple languages, or 16 (iKAN-116) or 24 (iKAN-124) ASCII characters. Support for the popular Modbus industrial protocol is also provided, meaning that the iKAN can be easily integrated into existing PLC and SCADA environments.
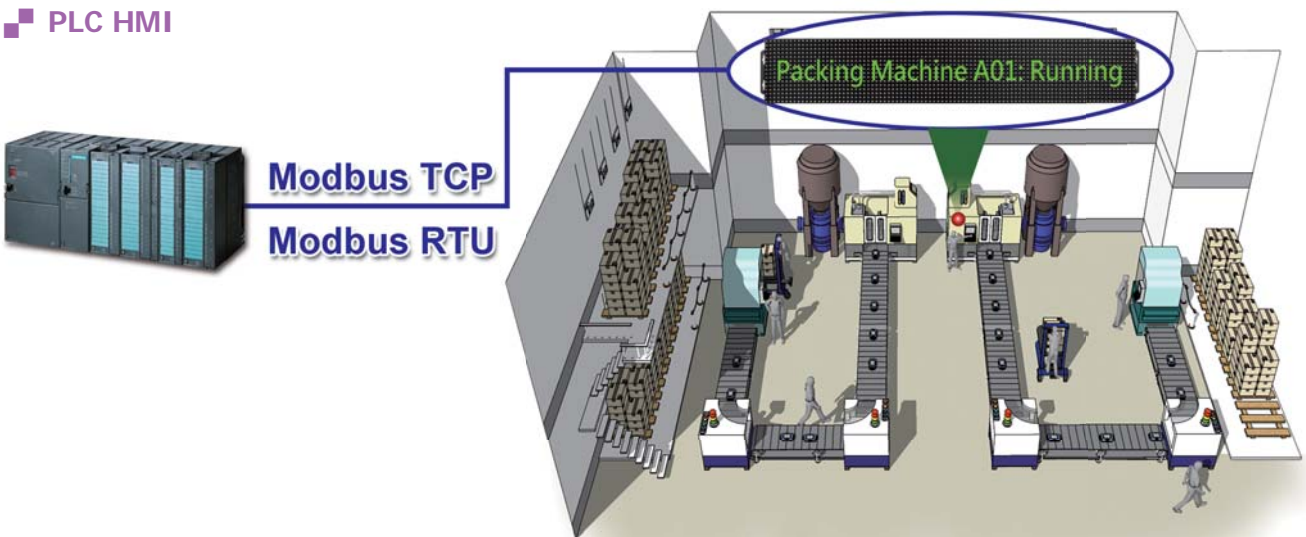
The iKAN LED display enables data written from a PC or PLC to be displayed in a formatted message in real-time. The text can be displayed in a range of seven colors, which can be used to indicate different degrees of importance of the message, as well as significantly increase the readability of the message in an industrial arena.

The built-in web-based user interface allows users to create messages using a standard web browser on a PC, mobile device, or smartphone without any limitations related to specific control software. The display of individual messages can also be remotely enabled or disabled as necessary using the same standard web browser. Up to 64 common messages and 10 instant messages are provided with a maximum of 40 Unicode characters or 100 ASCII characters each. In addition, 168 variables including 40 coils, 64 floats and 64 integers are available to enable data from a PC, PLC or other controller to be real-time displayed within each message. With the easy-to-use user interface and the ability to display real-time data, the iKAN LED display can be installed in a variety of indoor spaces, including shopping malls, railway stations, and industrial areas.
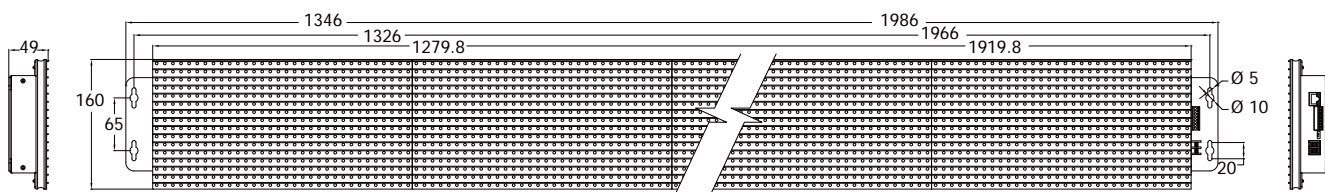
## Application

### ⊞ PLC HMI

## 📁 Specifications

| Model | iKAN-116 | iKAN-124 |
|---|---|---|
| **Display** | | |
| Color | Red, Blue, Yellow, Green, Light Blue, Purple or White | |
| Character Sets | 16-bit Unicode or 7-bit ASCII | |
| Display Size — ASCII | 16 Characters | 24 Characters |
| Display Size — Unicode | 8 Characters | 12 Characters |
| Message Pool | 64 common messages and 10 instant messages<br>Up to 40 Unicode characters or 100 ASCII characters each | |
| Data Pool | 40 Coils, 64 Float values, and 64 Integer values | |
| RTC (Real-time Clock) | Date and time, 24 hour format including second, minute, hour, date, day of the week, month, year | |
| **Ethernet** | | |
| Port | 1 x RJ-45, 10/100 Base-TX | |
| Protocol | Modbus TCP Slave, Max. 8 connections | |
| Configuration | Web-based User Interface | |
| **COM Port** | | |
| Port | 1, RS-232 or RS-485 | |
| Baudrate (bps) | 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 | |
| Data Format | N81, E81, O81 | |
| Protocol | Modbus RTU Slave | |
| **Power** | | |
| Input Range | 110 ~ 220 V$_{AC}$ | |
| Consumption | 0.25 A @ 110 V$_{AC}$, 0.125 A @220 V$_{AC}$ | 0.3 A @ 110 V$_{AC}$, 0.15 A @ 220 V$_{AC}$ |
| **Mechanical** | | |
| Dimensions (W x H x D) | 1346 mm x 160 mm x 49 mm | 1986 mm x 160 mm x 49 mm |
| Weight | 4 Kg | 5 Kg |
| Installation | Wall mounting | |
| Housing Material | Aluminum | |
| **Environment** | | |
| Operating Temperature | 0 ~ +60˚C | |
| Storage Temperature | -10 ~ +75˚C | |
| Humidity | 10 ~ 90% RH, Non-condensing | |

## 📁 Dimensions (Units: mm)



## 📁 Ordering Information

| iKAN-116 | 8/16-Character Industrial Modbus LED Display with Web-based User Interface |
|---|---|
| iKAN-124 | 12/24-Character Industrial Modbus LED Display with Web-based User Interface |