KELL
NEXTIMER

SINGLE PHASE

KALLOOR ELECTRONICS & LIGHTING PVT LTD
KOTTAYAM, KERALA, INDIA
MADE IN INDIA



SINGLE PHASE TIMER & PROTECTION SYSTEM

MONITOR.
PROTECT.
SCHEDULE.
CONTROL.
CONNECT.

VOLTAGE MONITORING WITH BLE CONTROL

An intelligent single-phase monitoring, protection and control unit for panels. It watches the supply voltage continuously, **cuts the output when it goes over or under your set limits**, and switches the load on and off to a programmable daily schedule — all set from an Android phone over Bluetooth.

100–310 V	1 A	DIN rail	–10…45 °C
WORKING VOLTAGE	RELAY RATING	MOUNTING	AMBIENT (TA)

AT A GLANCE

- LIVE SUPPLY VOLTAGE MONITORING
- OVER-VOLTAGE PROTECTION
- UNDER-VOLTAGE PROTECTION
- PROGRAMMABLE TIMER SCHEDULE
- MANUAL RELAY CONTROL
- BLE + ANDROID APP
- RTC SCHEDULING
- SETTINGS RETAINED AFTER POWER FAILURE
- SMART OLED WITH 5-MINUTE TIMEOUT
- ONE-TOUCH DISPLAY WAKE
- PROTECTION-PRIORITY OPERATION

MONITORING & PROTECTION

VOLTAGE SENSING

WATCHES THE LINE

Supply voltage is measured continuously and reported live, together with a Normal / Over / Under state you can read on the display or in the app.

OVER-VOLTAGE

TRIPS BEFORE DAMAGE

Set an over-voltage limit. If the supply stays above that limit for the protection period, the output is switched off.

UNDER-VOLTAGE

GUARDS THE MOTOR

Set an under-voltage limit. A sustained dip below it disconnects the load — the condition that burns out pump and motor windings.

PRIORITY

PROTECTION COMES FIRST

Voltage is read, protection is checked, and only then are timer or manual commands applied. A live fault cannot be overridden by a normal ON command.

TIMING & CONTROL

TIMER SCHEDULE

RUNS TO YOUR HOURS

One programmable schedule with its own enable, ON hour/minute and OFF hour/minute. Set it once from the app and the unit keeps it.

REAL-TIME CLOCK

KEEPS DATE AND TIME

An on-board RTC holds hours, minutes, seconds and calendar for accurate switching. The app can sync it to your phone's clock in one tap.

MANUAL OVERRIDE

SWITCH IT BY HAND

Turn the output ON or OFF from the app at any time and read back the live relay state. Protection stays armed throughout.

MEMORY

SURVIVES A POWER CUT

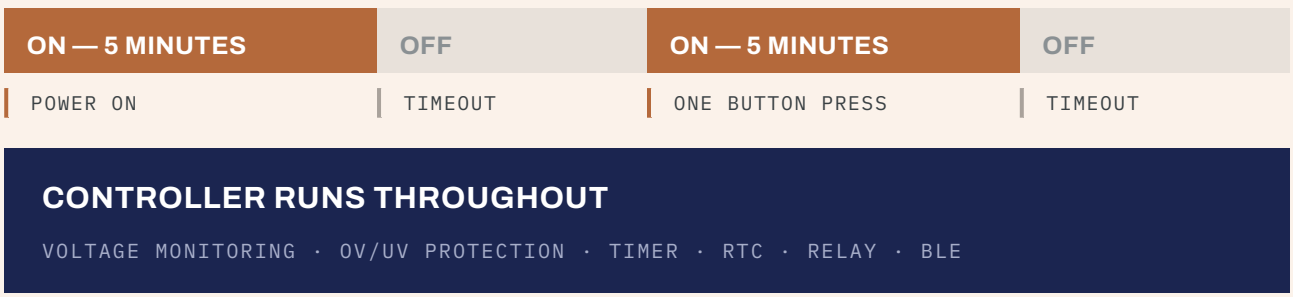
Schedules, protection limits and operating parameters are held in non-volatile memory and restored when supply returns. Nothing to re-enter.

THE DISPLAY SLEEPS. THE CONTROLLER DOES NOT.

SMART OLED

The OLED turns on by itself at power-up and shows supply voltage, date, time, relay state, timer state and protection status. After five minutes without a button press it switches off. One press brings it back for five more minutes.

OLED DISPLAY



SET IT FROM YOUR PHONE

The unit pairs with the KELL Android application over Bluetooth Low Energy. No Wi-Fi router, no SIM card and no internet connection are needed. Once configured, the phone can be put away — the controller carries on with the timer, RTC, monitoring, protection and relay control on its own.

01
SCAN
Open the app and start a BLE scan to list nearby KELL devices.

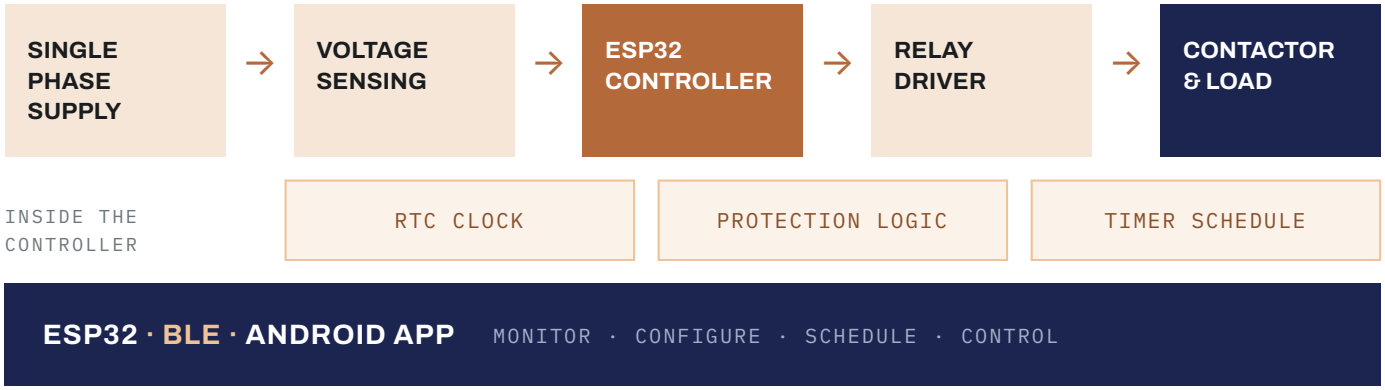
02
CONNECT
Select your device. Service discovery completes and the dashboard opens.

03
MONITOR
Read live supply voltage, relay state, timer state and protection status.

04
CONFIGURE
Set the OV/UV limits, protection delay, recovery and the ON/OFF schedule.

05
SYNC & GO
Sync the RTC to your phone clock, disconnect, and the unit runs unattended.

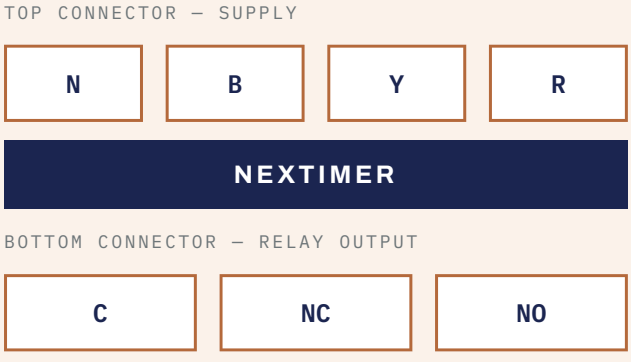
HOW THE SYSTEM WORKS



TERMINALS

N	Neutral — supply and sensing
R	Line — supply and sensing
B · Y	not used on the single-phase model
C	Relay common
NC	Normally closed contact
NO	Normally open contact

Terminal markings as printed on the unit. Plug-in screw terminals, top and bottom.



BUILT FOR THE PANEL

35 MM DIN RAIL
Sits in the row with your MCBs and contactors. No drilling, no bracket.

PLUG-IN TERMINALS
Supply and sensing on top, relay below. Connectors unplug for a quick swap.

FRONT-FACE BUTTON
Display window and button on the face — readable with the door open.

CE · ROHS
Rated −10 °C to +45 °C, for closed pump-house and outdoor panels.

SPECIFICATIONS

WORKING VOLTAGE	100–310 V AC, single phase, 50 Hz
MEASUREMENT	Supply line voltage, continuous
PROTECTION	Over-voltage and under-voltage, limits settable, with protection delay and recovery / hysteresis
OUTPUT	Relay contact, 1 A rating — suitable for contactor coil switching
TIMER	One programmable schedule — enable, ON hour/minute, OFF hour/minute
CLOCK	Real-time clock with calendar; time sync from the Android app
MEMORY	Schedules, protection limits and parameters held in non-volatile memory
WIRELESS	Bluetooth Low Energy (BLE); Android application. No Wi-Fi required
DISPLAY	OLED, auto ON at power-up, 5-minute timeout, one-touch wake
CONTROLLER	ESP32, field-upgradable firmware
MOUNTING	DIN rail, 35 mm
AMBIENT (TA)	−10 °C to +45 °C
ENCLOSURE	`module width / dimensions`
COMPLIANCE	CE, RoHS
WARRANTY	`12 / 24 months`
ORIGIN	Made in India

TYPICAL APPLICATIONS

- Single-phase pump sets and borewells
- Water pumping and overhead tank systems
- Single-phase motors and machines
- Electrical control and automation panels
- Small industrial machinery
- Commercial and facility equipment
- Scheduled lighting and utility loads
- Any single-phase load that runs to fixed hours

> **Installation note.** Suitability for a given installation depends on the load rating, contactor arrangement, voltage-sensing and isolation design, creepage and clearance, and the applicable electrical standards. Mains sensing and switching circuits must be designed and installed accordingly. Installation and wiring by a licensed electrician only.

ENQUIRIES & ORDERS

Manufactured in Kottayam, Kerala. OEM supply, panel-builder pricing and custom firmware settings available on request.

Phone +91 70340 11126

Email sales@kell.co.in

Web www.kell.co.in

KELL
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KALLOOR ELECTRONICS & LIGHTING PVT LTD
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THREE PHASE TIMER & PROTECTION SYSTEM

MONITOR. PROTECT. SCHEDULE. CONTROL. CONNECT.



R · Y · B MONITORING WITH BLE CONTROL

An intelligent three-phase monitoring, protection and control unit for panels. It watches R, Y and B voltages independently, **cuts the output when a phase goes over or under your set limits**, and switches the load on and off to a programmable daily schedule — all set from an Android phone over Bluetooth.

310–415 V	1 A	DIN rail	–10…45 °C
WORKING VOLTAGE	RELAY RATING	MOUNTING	AMBIENT (TA)

AT A GLANCE

- INDEPENDENT R / Y / B MONITORING
- OVER-VOLTAGE PROTECTION
- UNDER-VOLTAGE PROTECTION
- PROGRAMMABLE TIMER SCHEDULE
- MANUAL RELAY CONTROL
- BLE + ANDROID APP
- RTC SCHEDULING
- SETTINGS RETAINED AFTER POWER FAILURE
- SMART OLED WITH 5-MINUTE TIMEOUT
- ONE-TOUCH DISPLAY WAKE
- PROTECTION-PRIORITY OPERATION

MONITORING & PROTECTION

THREE-PHASE SENSING

EVERY PHASE, ON ITS OWN

R, Y and B voltages are measured continuously and reported separately, with a live value and a Normal / Over / Under state for each phase.

OVER-VOLTAGE

TRIPS BEFORE DAMAGE

Set an over-voltage limit for each phase. If a phase stays above its limit for the protection period, the output is switched off.

UNDER-VOLTAGE

GUARDS THE MOTOR

Set an under-voltage limit for each phase. A sustained dip below the limit disconnects the load — the condition that burns out pump and motor windings.

PRIORITY

PROTECTION COMES FIRST

Voltage is read, protection is checked, and only then are timer or manual commands applied. A live fault cannot be overridden by a normal ON command.

TIMING & CONTROL

TIMER SCHEDULE

RUNS TO YOUR HOURS

One programmable schedule with its own enable, ON hour/minute and OFF hour/minute. Set it once from the app and the unit keeps it.

REAL-TIME CLOCK

KEEPS DATE AND TIME

An on-board RTC holds hours, minutes, seconds and calendar for accurate switching. The app can sync it to your phone's clock in one tap.

MANUAL OVERRIDE

SWITCH IT BY HAND

Turn the output ON or OFF from the app at any time and read back the live relay state. Protection stays armed throughout.

MEMORY

SURVIVES A POWER CUT

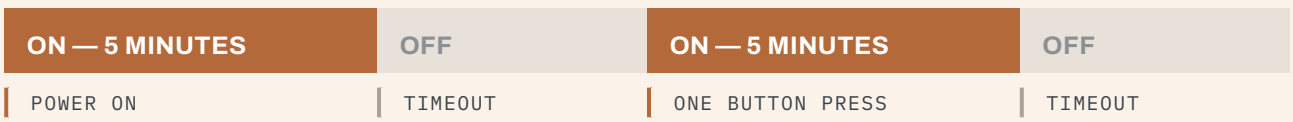
Schedules, protection limits and operating parameters are held in non-volatile memory and restored when supply returns. Nothing to re-enter.

THE DISPLAY SLEEPS. THE CONTROLLER DOES NOT.

SMART OLED

The OLED turns on by itself at power-up and shows R/Y/B voltage, date, time, relay state, timer state and protection status. After five minutes without a button press it switches off. One press brings it back for five more minutes.

OLED DISPLAY



CONTROLLER RUNS THROUGHOUT

VOLTAGE MONITORING · OV/UV PROTECTION · TIMER · RTC · RELAY · BLE

SET IT FROM YOUR PHONE

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01
SCAN
Open the app and start a BLE scan to list nearby KELL devices.

02
CONNECT
Select your device. Service discovery completes and the dashboard opens.

03
MONITOR
Read live R/Y/B voltage, relay state, timer state and protection status.

04
CONFIGURE
Set per-phase OV/UV limits, protection delay, recovery and the ON/OFF schedule.

05
SYNC & GO
Sync the RTC to your phone clock, disconnect, and the unit runs unattended.

HOW THE SYSTEM WORKS

3-PHASE SUPPLY R · Y · B → **VOLTAGE SENSING** → **ESP32 CONTROLLER** → **RELAY DRIVER** → **CONTACTOR & LOAD**

INSIDE THE CONTROLLER: RTC CLOCK · PROTECTION LOGIC · TIMER SCHEDULE

ESP32 · BLE · ANDROID APP — MONITOR · CONFIGURE · SCHEDULE · CONTROL

TERMINALS

N	Neutral
R	R phase — supply and sensing
Y	Y phase — supply and sensing
B	B phase — supply and sensing
C	Relay common
NO	Normally open contact
NC	Normally closed contact

Terminal markings as printed on the unit. Plug-in screw terminals, top and bottom.



PLUG-IN SCREW TERMINALS · DIN RAIL CLIP

BUILT FOR THE PANEL

35 MM DIN RAIL
Sits in the row with your MCBs and contactors. No drilling, no bracket.

PLUG-IN TERMINALS
Supply and sensing on top, relay below.

SPECIFICATIONS

WORKING VOLTAGE	310–415 V AC, three phase, 50 Hz
MEASUREMENT	R, Y and B phase voltage, continuous and independent
PROTECTION	Over-voltage and under-voltage, limits settable per phase, with protection delay and recovery / hysteresis
OUTPUT	Relay contact, 1 A rating — suitable for contactor coil switching
TIMER	One programmable schedule — enable, ON hour/minute, OFF hour/minute
CLOCK	Real-time clock with calendar; time sync from the Android app
MEMORY	Schedules, protection limits and parameters held in non-volatile memory
WIRELESS	Bluetooth Low Energy (BLE); Android application. No Wi-Fi required
DISPLAY	OLED, auto ON at power-up, 5-minute timeout, one-touch wake
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- Water pumping and overhead tank systems
- Three-phase motors and drives
- Electrical control and automation panels
- Small industrial machinery
- Commercial and facility equipment
- Scheduled lighting and utility loads
- Any three-phase load that runs to fixed hours

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ENQUIRIES & ORDERS

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