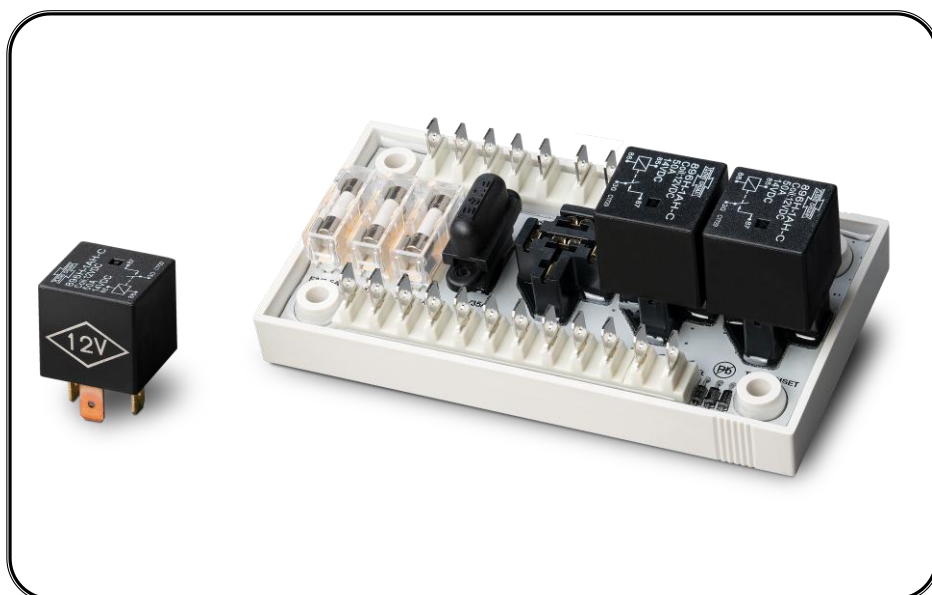


GCU-14R (12/24V)

Prewired Relay Module



GCU-14R PREWIRED RELAY MODULE

SECTION 1 : INTRODUCTION

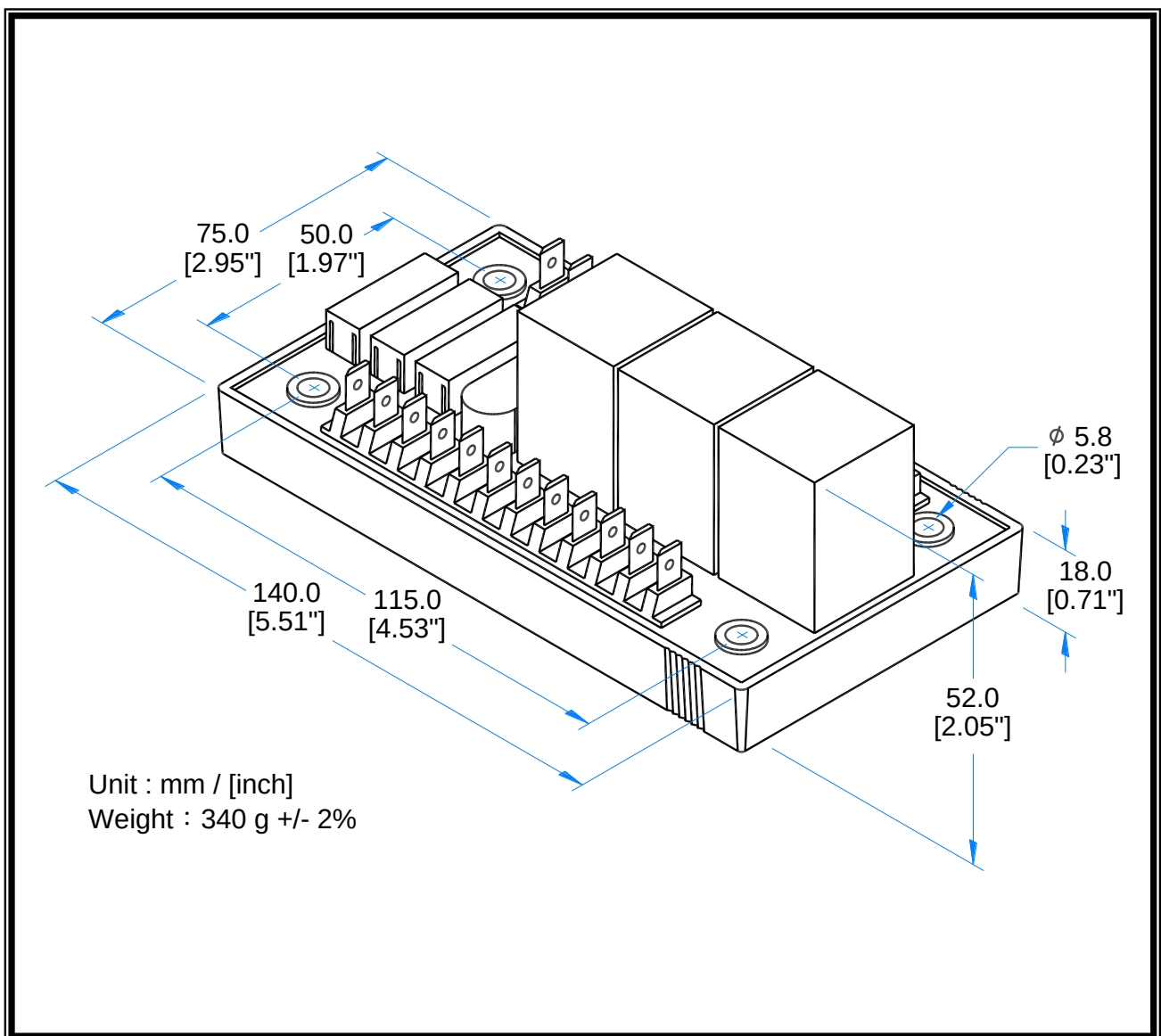
GCU-14R Relay Module is designed to simplify wiring between the Genset control module, Kutai's DSP-10 display module and the genset. The Module is ready with male spade terminals; fuses and power relays. The power relays are used in the high current Preheat, Start, and Stop circuits.

The Module is insulated with high anti-corrosion epoxy, suitable for use in the hostile environment inside the genset control panel.

GCU-14R saves time and money when wiring the control panel. The working voltage can be changed from 12 Vdc to 24 Vdc by changing the relays. The relay module is also compatible with other Engine Control Systems.

GCU-14R is also applicable to genset controllers of other brands that has negative battery output control signal. For other generator controller that has positive battery output control signal, the GCU-11R Relay Module is recommended.

SECTION 2 : GCU-14R OUTLINE DIMENSION



SECTION 3 : GCU-14R TERMINAL DESCRIPTION

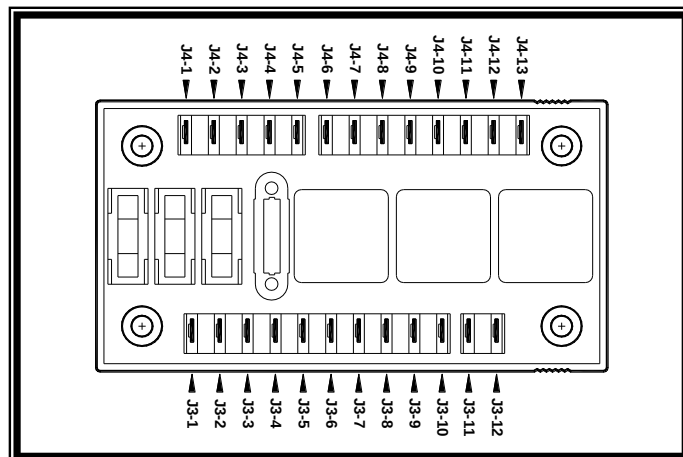
3.1 External Wiring Terminal J3

PIN NO.	DESCRIPTION	NOTES
J3-1	AC Sensing Input (L3)	Connect to Alternator Phase L3 (10 – 500 Vac Rated)
J3-2	AC Sensing Input (L2)	Connect to Alternator Phase L2 (10 – 500 Vac Rated)
J3-3	AC Sensing Input (L1)	Connect to Alternator Phase L1 (10 – 500 Vac Rated)
J3-4	AC Sensing Input (N)	Connect to Alternator Phase N
J3-5	DC Supply Input (+V)	Connect to Battery Positive (+V)
J3-6	DC Supply Input (–V)	Connect to Battery Negative (–V)
J3-7	Pre-heat Signal Output (+V)	Connect to Internal Heater (Rated Output 35 Amp)
J3-8	Start Signal Output (+V)	Connect to Starter Motor (Rated Output 35 Amp)
J3-9	Stop Signal Output (+V)	Connect to Fuel Solenoid or Valve Control (Rated Output 35 Amp)
J3-10	Accessory “ON” Output (+V)	Connect to Panel Meter
J3-11	B+ Output (+V)	B+ Output (+V) when Engine Running
J3-12	B- Output (–V)	B- Output (–V) when Engine Running

3.2 External Wiring Terminal J4

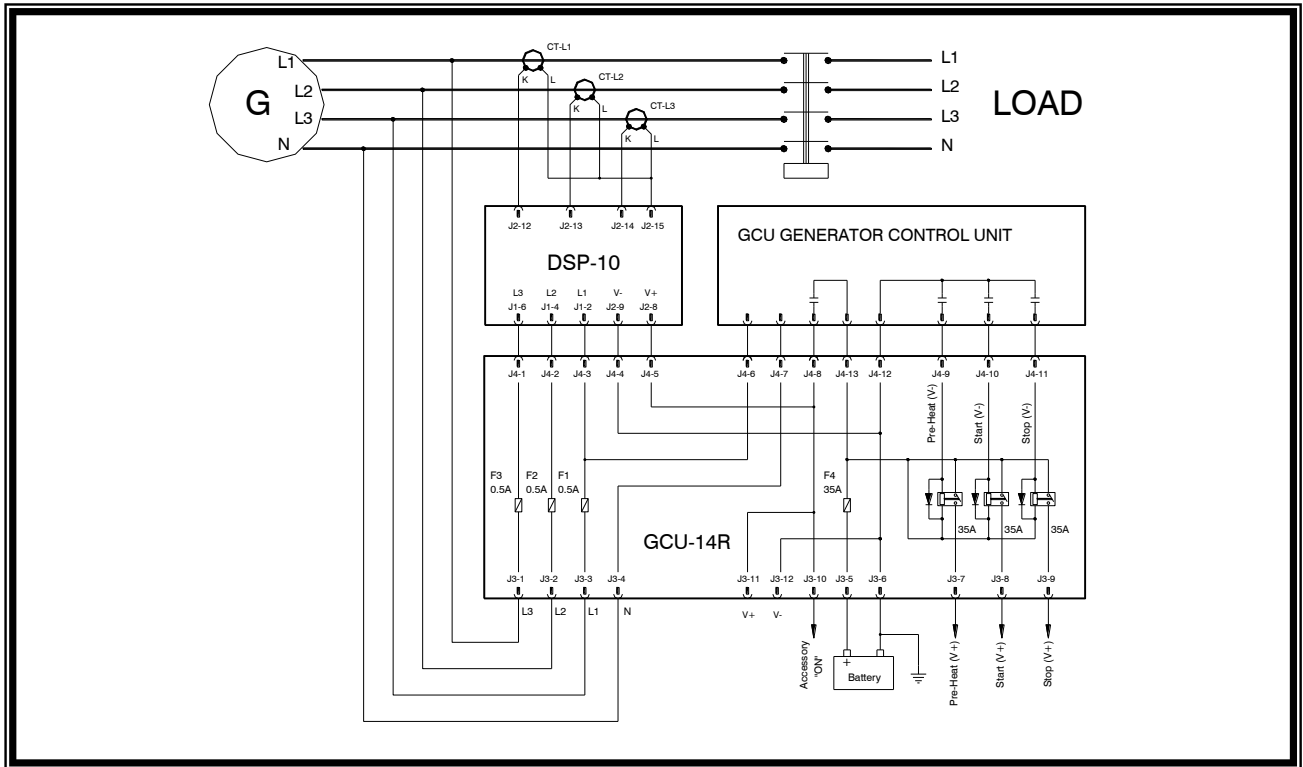
PIN NO.	DESCRIPTION	NOTES
J4-1	AC Sensing Output (L3)	Connect to DSP-10 Module AC Sensing Input (J1-6)
J4-2	AC Sensing Output (L2)	Connect to DSP-10 Module AC Sensing Input (J1-4)
J4-3	AC Sensing Output (L1)	Connect to DSP-10 Module AC Sensing Input (J1-2)
J4-4	DC Plant Supply Output (–V)	Connect to DSP-10 Module DC supply Negative Input (J2-9)
J4-5	DC Plant Supply Output (+V)	Connect to DSP-10 Module DC supply Positive Input (J2-8)
J4-6	AC Sensing Output (L1)	Connect to GCU Controller AC Sensing Input
J4-7	AC Sensing Output (N)	Connect to GCU Controller AC Sensing Input
J4-8	Accessory “ON” Signal Input	Connect to GCU Controller Accessory “ON” Output (V+ In)
J4-9	Pre-heat Signal Input	Connect to GCU Controller Pre-heat Signal Output (V– In))
J4-10	Engine Start Signal Input	Connect to GCU Controller Start Signal Output (V– In))
J4-11	Engine Stop Signal Input	Connect to GCU Controller Stop Signal Output (V– In)
J4-12	DC Plant Supply Output (–V)	Connect to GCU Controller DC supply Negative Input
J4-13	DC Plant Supply Output (+V)	Connect to GCU Controller DC supply Positive Input

3.3 GCU-14R Terminal Diagram

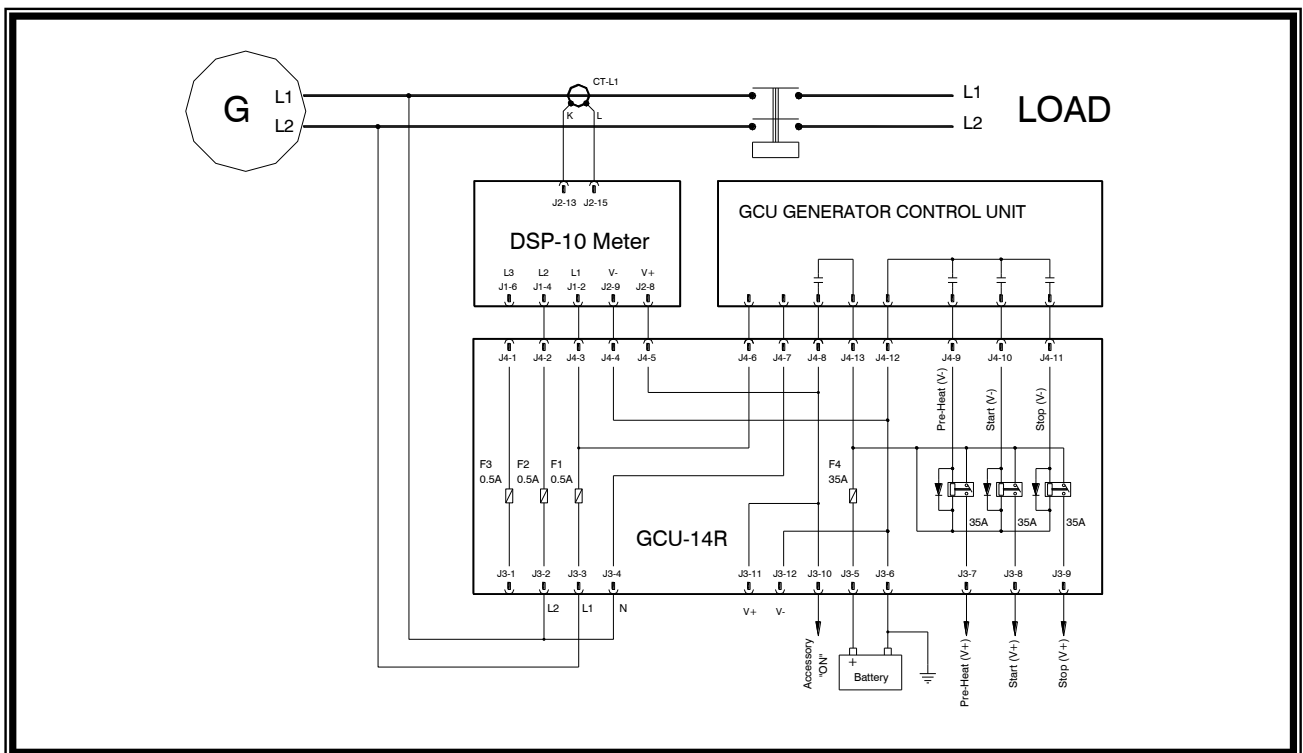


SECTION 4 : RECOMMENDED WIRING DIAGRAM

4.1 Three Phase Recommended Wiring Diagram



4.2 Single Phase Recommended Wiring Diagram



Please link to <http://www.kutai.com.tw> for detailed manual