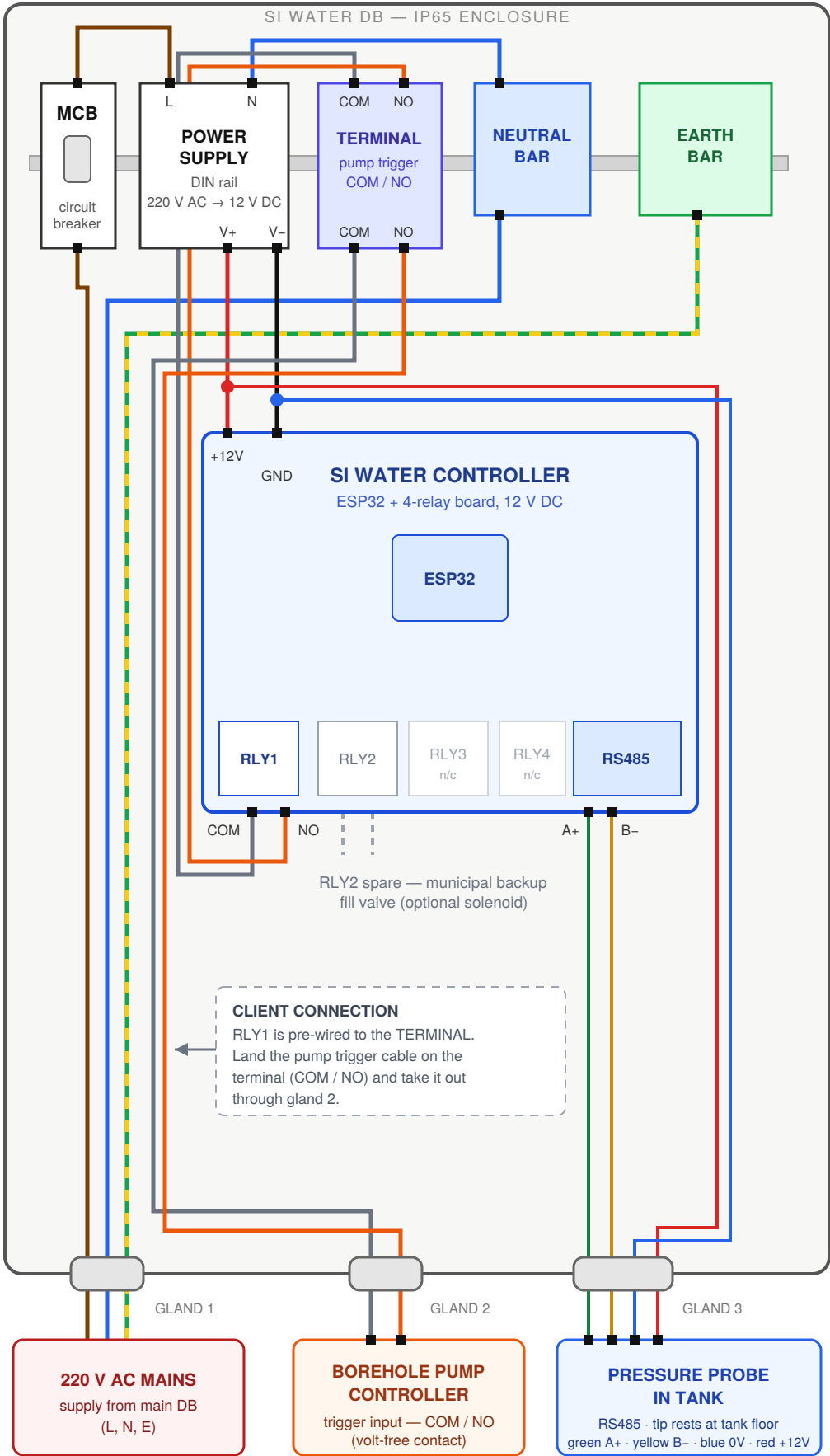


SI WATER — DB WIRING DIAGRAM

Solaire Intelligence SI Water · tank level monitoring & borehole pump control

WARNING: ISOLATE THE 220 V SUPPLY AT THE MAIN DB BEFORE OPENING THIS ENCLOSURE



WIRE LEGEND

- 220 V Live (brown)
 - 220 V Neutral (blue)
 - Earth (green/yellow)
 - +12 V DC (red)
 - 0 V DC (black)
 - Relay COM — dry contact
 - Relay NO — dry contact
 - RS485 A+ (green)
 - RS485 B- (yellow)
 - Probe 0 V (blue)
 - Dot = wires joined
- Crossing wires are NOT joined.

NOTES

- Isolate the 220 V supply at the main DB before opening or working in this enclosure.
- 220 V AC feed enters via gland 1: Live to the MCB, Neutral to the neutral bar, Earth to the earth bar.
- The DIN-rail PSU converts 220 V AC to 12 V DC and powers the controller board and the probe.
- Relay 1 (COM / NO) is pre-wired to the DIN-rail TERMINAL. Land the pump trigger cable on this terminal, out via gland 2. Volt-free contact — switch the pump contactor / enable, never the motor directly.
- Relay 2 is spare — reserved for the optional municipal backup fill valve (solenoid). RLY3–4 not used.
- The pressure probe hangs in the TANK, tip at the tank floor. It is powered at 12 V DC straight from the PSU output (same V+ / V- terminals as the board) — it will not read without 12 V.
- RS485: match A→A, B→B per the tag on the probe cable. If readings stay blank, swap A and B. Twisted pair; keep clear of mains cabling.
- Leave the probe's vented cable end inside the dry enclosure — do not seal or submerge it.
- All logic runs locally. Dashboard: si-water-XXXXXX-01.local (your unit's Client ID) · portal: portal.solaire-intelligence.co.za

SI WATER DB — WIRING DIAGRAM

Doc DB-001 · Generic reference — all SI Water units
Solaire Intelligence · solaire-intelligence.co.za · info@si-sa.co.za

DRAWN
Solaire Intelligence
July 2026

REVISION
1.0

SHEET
1 of 1