PUMP CONTROL

PCX

PUMP CONTROL MODULE WITH REMOTE OPERATION

INTELLIGENT SUBMERSIBLE PUMP CONTROL WITH SAFE REMOTE OPERATION

The PCX Pump Control Module is an advanced controller for submersible pumps, delivering intelligent automation, full remote stop/start control and improved operator safety.

Designed for demanding environments such as mining, construction and industrial dewatering, the PCX prevents pump damage and reduces maintenance costs while keeping personnel away from live equipment.

Configuration and control are carried out from the remote unit — including safe start/stop, real-time current monitoring and automated dry-run protection through intelligent snore detection.



FIG. 1 — PCX PUMP CONTROL MODULE, FRONT VIEW

MOTOR CURRENT **1 – 200 A**	CURRENT TRANSFORMER **200:1, included**
OUTPUT RELAYS **Run & alarm, 5 A**	SUPPLY OPTIONS **24 / 100 – 250 V**

REMOTE STOP / START

ADAPTIVE DRY-RUN PROTECTION

AUSTRALIAN DESIGNED & SUPPORTED

KEY FEATURES

01 Remote stop/start — no panel opening required

02 Adaptive dry-run (snore) detection from motor current analysis

03 Run/pause timing adapts in real time — long runs, shorter pauses; short runs, longer pauses

04 Manual and automatic operating modes, with restart program button on the remote unit

05 Four selectable motor current ranges with 200:1 CT included

06 Adjustable snooze current threshold and three-position curve select

07 Live 10 – 100% current bar graph and LED status indication

08 4 – 20 mA current output and run/alarm output relays

KEY BENEFITS

OPERATOR SAFETY
Start, stop and set up from the remote unit — no contact with live wiring and reduced arc-flash exposure.

LONGER PUMP LIFE
The pump runs only when fluid is present, extending motor and impeller life.

LOWER MAINTENANCE
Adaptive run/pause control reduces wear, call-outs and downtime.

AT-A-GLANCE DIAGNOSTICS
Live current bar graph and status LEDs show pump condition without opening the panel.

PROTECTION FUNCTIONS

MANUAL MODE
Disables automatic pump cycles; the pump is restarted from the remote control unit.

AUTOMATIC MODE
Autonomous control based on real-time pump current, with dry-run protection logic.

DRY-RUN (SNORE) DETECTION
Detects the pump drawing air from motor current and pauses it before damage occurs.

RESTART PROGRAM
Resets the run/pause timing and immediately re-engages the pump.

APPLICATIONS

MIN	CON	IND	SUB	SMP	PS
Mine dewatering	Construction dewatering	Industrial dewatering	Submersible pumps	Sumps & pits	Remote pump stations

TERMINAL LAYOUT & FRONT PANEL

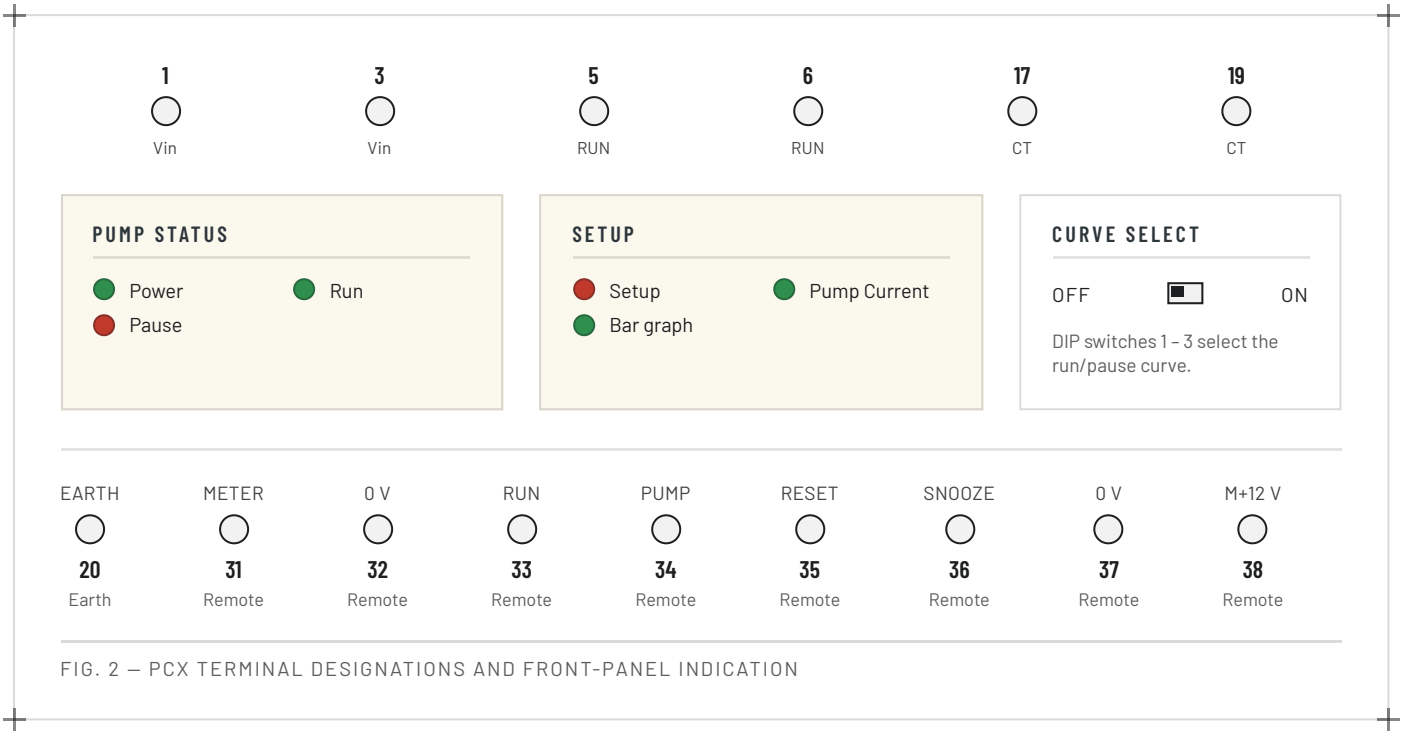

FIG. 2 — PCX TERMINAL DESIGNATIONS AND FRONT-PANEL INDICATION

INDICATION

Power	System power active
Run	Pump running
Pause	Pump paused by the run/pause program
Alarm	Alarm condition, alarm relay operated
Setup	Setup mode active
Pump Current	Normal operating current detected
Bar graph	Current as 10 – 100 % of the selected range

CONTROL SETTINGS

SNOOZE CURRENT

Adjustable, min – max



Dry-run threshold

CURRENT RANGE

Four ranges, selectable



0: 1–5 A · 1: 5–25 A · 2: 25–100 A · 3: 100–200 A

Operating mode	Manual, or automatic from real-time pump current
Remote unit	Start/stop, restart program, live current and snooze adjustment
Analogue output	4 – 20 mA motor current, into 2500 Ω

INSTALLATION NOTES

01 Connect the supplied 200:1 CT to terminals 17 and 19.

02 Select the current range to suit the pump full-load current before commissioning.

03 Remote options (terminals 31 – 38) connect to the remote control unit.

04 All connections must comply with the applicable wiring rules.

05 All contacts are shown in the de-energised condition.

TERMINAL FUNCTIONS

NO.	TERMINAL	FUNCTION
1	**Vin**	Supply
3	**Vin**	Supply
5 – 6	**RUN**	Run relay output
17 – 19	**CT**	CT input, 200:1
20	**Earth**	Earth connection
31	**Meter**	Remote option — meter
32	**0 V**	Remote option — 0 V
33	**Run**	Remote option — run
34	**Pump**	Remote option — pump
35	**Reset**	Remote option — reset
36	**Snooze**	Remote option — snooze
37	**0 V**	Remote option — 0 V
38	**M+12 V**	Remote option — +12 V

DIMENSIONS & ENCLOSURE

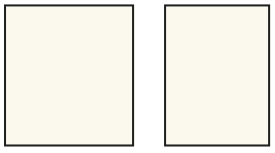

FIG. 3 — ENCLOSURE, FRONT & SIDE ELEVATION (105 MM HIGH)

Dimensions	96 (W) × 105 (H) × 76 (D) mm
Material	High-impact polycarbonate
Protection	IP20
Mounting	DIN rail or fascia
Weight	365 g
Remote unit	96 × 110 × 76 mm, NGS-9410
Panel cut-out	84 × 37 mm

SPECIFICATIONS

SUPPLY

MODEL	MIN	TYP	MAX	UNIT
A01150	100	—	250	V AC
A01151	20	24	50	V AC/DC

Motor current ranges	1 – 5 A, 5 – 25 A, 25 – 100 A, 100 – 200 A
Current transformer	200:1, included
Relay outputs	Run and alarm
Contact rating	5 A at 250 V AC (general), 5 A at 30 V DC (resistive), 100 VA max
Analogue output	4 – 20 mA motor current, into 2500 Ω
Operating temperature	–10 – 60 °C
Operating modes	Manual and automatic

ORDERING INFORMATION

PART NO.	DESCRIPTION
A01150	PCX Pump Control Module — 100 – 250 V AC
A01151	PCX Pump Control Module — 24 V AC/DC

Supplied with: Module, 200:1 CT and instruction sheet.

FLYSHTEC

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+61 435 939 513
info@flyshtec.com.au
www.flyshtec.com.au

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0468 344 220
richard@dejongindustrialsystems.com.au
www.dejongindustrialsystems.com.au