smart PRO

FACILITÀ INSTALLAZIONE

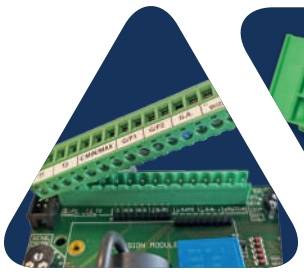
INTERFACCIA UTENTE

ESPANDIBILITÀ

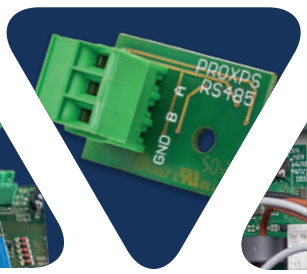
VERSATILITÀ

Vuoi ottimizzare a basso costo?
smart PRO

SMART PRO è l'evoluzione del quadro elettrico Elentek più venduto, adatto sia per impianti di **acque pulite** che di **acque reflue**. Tramite le nuove espansioni e le connessioni, il quadro permette un ampio campo di applicazioni e aumenta le potenzialità dell'impianto.
Compatto, facilissimo da installare e programmare anche mediante app, agevola la sostituzione di vecchi quadri già installati.



MORSETTIERA ESTRAIBILE



RS485 (Optional)



ESPANDIBILITÀ MODULARE



COMPETITIVO

Il quadro con molteplici applicazioni economicamente competitivo

INTUITIVO

Massima semplicità di settaggio e utilizzo

ANTIGRIPPAGGIO

Funzione di sblocco pompa per evitare blocchi indesiderati

MASSIMO CONTROLLO

Integra le più complete protezioni del sistema

APPLICAZIONI

- PRESSURIZZAZIONE
- RIEMPIMENTO
- SVUOTAMENTO
- DRENAGGIO

CONNETTIVITÀ

- MODULO PRESENZA ACQUA IN CAMERA OLIO
- MODULO BATTERIA IN TAMPONE
- MODULO BMS CONTATTI PULITI
- MODULO BLUETOOTH PER APP
- MODULO SONDE DI LIVELLO
- MODULO RS485 MODBUS

CARATTERISTICHE PRINCIPALI

FUNZIONI

- Led a fronte quadro per segnalazione stato funzionamento e allarmi
- Pulsanti funzionamento AUTOMATICO - 0 (Standby) - MANUALE (Fisso o a impulso)
- Autoprova (antigrip escludibile)
- Protezione marcia a secco con: sonde di livello/ galleggianti/ pressostati
- Fino a 4 ingressi comando: galleggianti/ pressostati
- Ingressi pastiglie termiche clicson con reset automatico (escludibile)
- Inversione ingressi (da normalmente aperti a normalmente chiusi)
- Autoritenuta per galleggianti marcia/arresto (escludibile)
- Ritardo protezione amperometrica selezionabile
- Ripristino automatico per allarme minima corrente (escludibile)
- Ritardo attivazione da rientro rete (escludibile)
- Funzionamento pulsante manuale (fisso o momentaneo)
- Predisposizione per condensatori di marcia per versione monofase (non inclusi)

FUNZIONI AGGIUNTIVE SMART PRO 2

- Alternanza motori (escludibile)
- Scambio motore immediato in caso di anomalia

VERSIONI

- Monofase 100-240Vac 50/60Hz
- Trifase 310-450Vac 50/60Hz

CONTROLLI

- Controllo elettronico massima corrente con taratura assistita
- Controllo elettronico minima corrente (marcia a secco) con taratura assistita
- Controllo mancata o errata sequenza fasi in ingresso alimentazione (escludibile)

ALLARMI

- Allarmi segnalati: stato tensione, livelli, sovraccarico motore, minima corrente motore, clicson motore
- Contatti di uscita allarme generale

PROTEZIONI

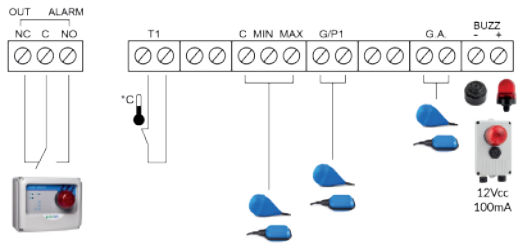
- Fusibili di protezioni ausiliari e motore
- Sezionatore generale blocco-porta (se previsto)
- Box in ABS, IP55

MODELLI E SCHEMI DI COLLEGAMENTO

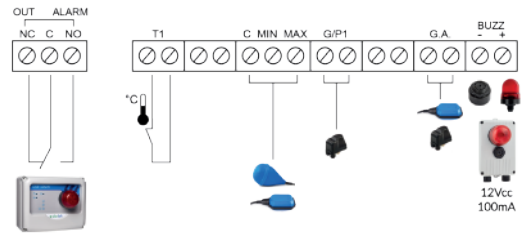
smart PRO 1

			Potenza massima cad.		Corrente cad.		Box		Peso
Codice	**Modello**	**Tensione**	**Kw**	**Hp**	**Range**	**Max**	**Mod.**	**Materiale**	**Kg.**
11015NB	SMART PRO 1-Mono senza bloccoporta	1~230 V	2,2	3	2-18 A	18 A	P1	Plastico	1.2
11015	SMART PRO 1-Mono	1~230 V	2,2	3	2-18 A	18 A	P2	Plastico	1.5
11016	SMART PRO 1-Tri/7,5	3~400 V	7,5	10	2-16 A	16 A	P2	Plastico	2.3
11017	SMART PRO 1-Tri/11	3~400 V	11	15	16-25 A	25 A	P2	Plastico	2.5
11018	SMART PRO 1-Tri/15	3~400 V	15	20	16-32 A	32 A	P2	Plastico	3

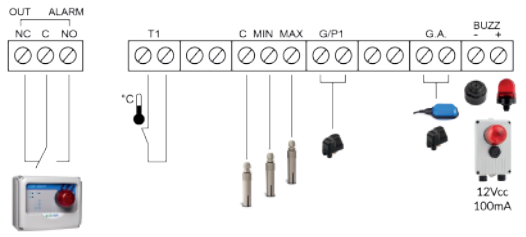
Tipologia di collegamento 1



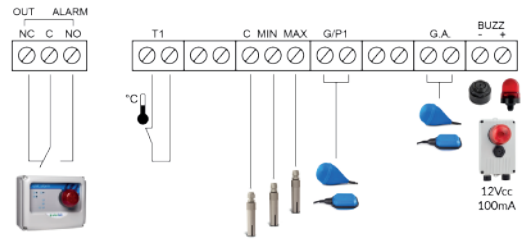
Tipologia di collegamento 2



Tipologia di collegamento 3



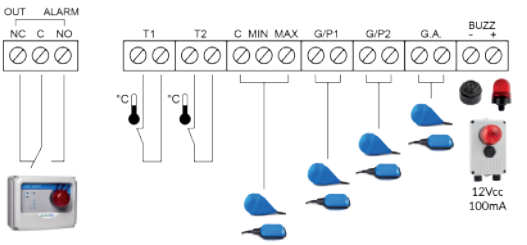
Tipologia di collegamento 4



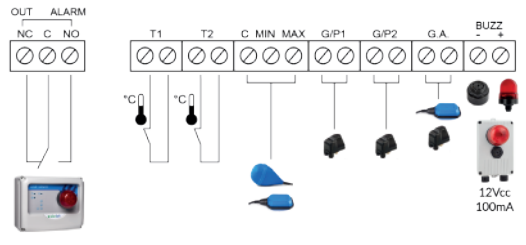
smart PRO 2

			Potenza massima cad.		Corrente cad.		Box		Peso
Codice	**Modello**	**Tensione**	**Kw**	**Hp**	**Range**	**Max**	**Mod.**	**Materiale**	**Kg.**
12015NB	SMART PRO 2-Mono senza bloccoporta	1~230 V	2,2	3	2-18 A	18 A	P1	Plastico	1.2
12015	SMART PRO 2-Mono	1~230 V	2,2	3	2-18 A	18 A	P2	Plastico	1.5
12016	SMART PRO 2-Tri/7,5	3~400 V	7,5	10	2-16 A	16 A	P2	Plastico	2.5
12017	SMART PRO 2-Tri/11	3~400 V	11	15	16-25 A	25 A	P3	Plastico	3
12018	SMART PRO 2-Tri/15	3~400 V	15	20	16-32 A	32 A	P3	Plastico	3.5

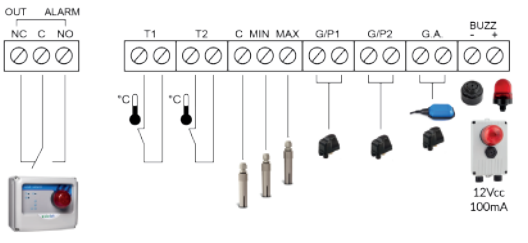
Tipologia di collegamento 1



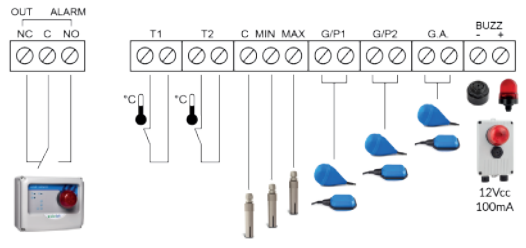
Tipologia di collegamento 2



Tipologia di collegamento 3



Tipologia di collegamento 4



ACCESSORI

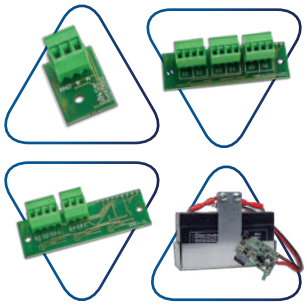
Codice	Modello	Descrizione
98007	K3SL	Kit 3 sonde (elettrodi) di livello
99050	PM/5	Pressostato 1-5 bar
99051	PM/12	Pressostato 3-12 bar
98003.012	AA-12Vdc	Allarme acustico 90 dB 12Vdc
98004.012	LL-12Vac/dc	Lampada lampeggiante di allarme 12V AC/DC
98022	FE	Fungo d'emergenza
98029	DT	Orologio giornaliero a cavalieri
98030	WT	Orologio settimanale digitale
98032	TPL	Timer pausa/lavoro
98033	CI24Vac	Comando esterno in 24Vac per attivazione/spegnimento utenza
98033A	CI230Vac	Comando esterno in 230Vac per attivazione/spegnimento utenza



ESPANSIONI

Codice	Modello	Descrizione
98102	PRO-XPS	Modulo PROXPS RS485 Modbus
98103*	PRO-SL	Modulo sonde di livello PRO-SL
98104*	PRO-H2O	Modulo presenza acqua in camera olio PRO-SL H2O
98105*	PRO-6DO	Modulo BMS contatti puliti
98106	PRO-DBT	Modulo batteria in tampone PRODBT
98107	PRO-BT	Modulo bluetooth per App PROXPS-BT

*È possibile scegliere solo 1 tra le espansioni: 98103 / 98104 / 98105

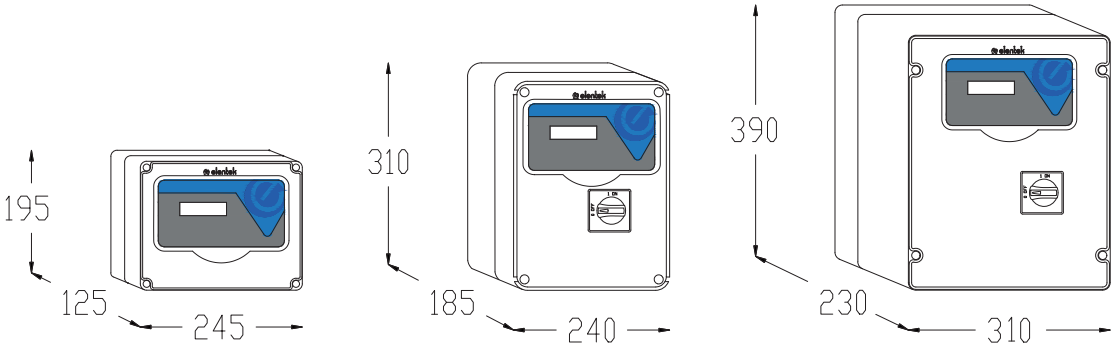


PRODOTTI CORRELATI

Codice	Modello	Descrizione
99034	FLO 10	Galleggiante con cavo in neoprene lunghezza 10 m
99036	DROP 10	Galleggiante ad assetto variabile con cavo in neoprene lunghezza 10 m
99039	SHELL	Contrappeso in polipropene per galleggianti
01503	FLASH 12	Quadro di allarme acustico/visivo
01500	UNIT ALARM 1	Quadro di allarme acustico con batteria in tampone
01501	UNIT ALARM 2	Quadro di allarme acustico/visivo con batteria in tampone
01502	UNIT ALARM GSM	Quadro di allarme acustico/visivo con batteria in tampone e kit GSM
97007	E-KIOSK	Colonnina portaquadro in polietilene
pag. 72	MANIFOLD	Collettori in acciaio inox
99009	BASE FULL	Base per gruppi di pressione a 2 pompe orizzontali e verticali



DIMENSIONI



P1 P2 P3

smart PRO

EASE OF INSTALLATION

USER INTERFACE

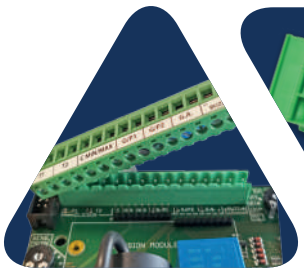
SCALABILITY

VERSATILITY

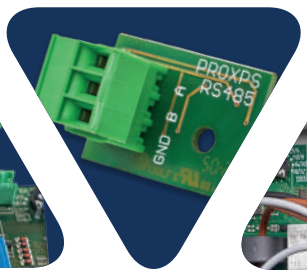
Do you want to optimize at low cost?

smart PRO

SMART PRO is the evolution of Elentek's best-selling electrical panel, suitable for both **clean water** and **wastewater** systems. Through new expansions and connections, the panel allows for a wide range of applications and enhances the plant's potential. Compact, very easy to install and program, even through an app, it facilitates the replacement of old panels already installed.



REMOVABLE TERMINAL BLOCK



RS485 (Optional)



MODULAR SCALABILITY



COMPETITIVE

The panel with multiple economically competitive applications

INTUITIVE

Maximum ease of setup and use

ANTI-SEIZURE

Pump unlocking function to prevent unwanted blockages

MAXIMUM CONTROL

Integrates the most comprehensive system protections

APPLICATIONS

- PRESSURIZATION
- FILLING
- EMPTYING
- DRAINAGE

CONNECTIVITY

- WATER PRESENCE MODULE IN OIL CHAMBER
- BMS MODULE WITH CLEAN CONTACTS
- BLUETOOTH MODULE FOR APP
- BACKUP BATTERY MODULE
- RS485 MODBUS MODULE
- LEVEL SENSOR MODULE

MAIN FEATURES

FUNCTIONS

- Front panel LED for status and alarm indication
- Operation buttons: AUTOMATIC - 0 (Standby) - MANUAL (Fixed or momentary)
- Self-test (anti-seize, can be excluded)
- Dry-run protection with: level probes/ float switches/ pressure switches
- Up to 4 command inputs: float switches/ pressure switches
- Thermal overload contacts with automatic reset (can be excluded)
- Input reversal (from normally open to normally closed)
- Self-holding for float switches (can be excluded)
- Selectable amperometric protection delay
- Automatic reset for minimum current alarm (can be excluded)
- Network return activation delay (can be excluded)
- Manual button operation (fixed or momentary)
- Provision for running capacitors for single-phase version (not included)

ADDITIONAL FUNCTIONS SMART PRO 2

- Motor alternation (can be excluded)
- Immediate motor swap in case of anomaly

VERSIONS

- Single-phase 100-240Vac 50/60Hz
- Three-phase 310-450Vac 50/60Hz

CONTROLS

- Electronic maximum current control with assisted calibration
- Electronic minimum current control (dry run) with assisted calibration
- Control of missing or incorrect phase sequence in power supply input (can be excluded)

ALARMS

- Alarms reported: voltage status, levels, motor overload, minimum motor current, motor thermal overload
- General alarm output contacts

PROTECTIONS

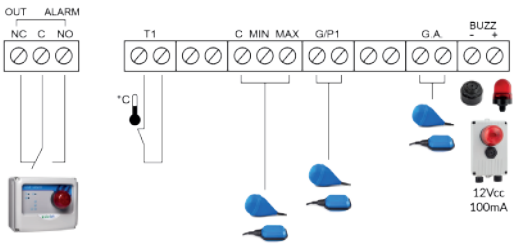
- Auxiliary and motor protection fuses
- Main disconnect switch with door lock (if provided)
- ABS enclosure, IP55

MODELS AND WIRING DIAGRAMS

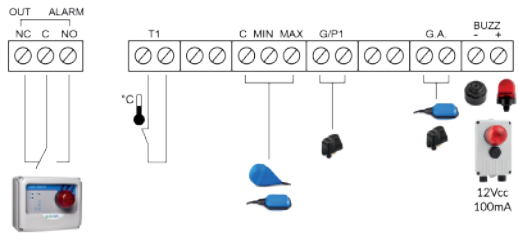
smart PRO 1

			Maximum power		Current		Box		W
Code	**Model**	**Voltage**	**Kw**	**Hp**	**Range**	**Max**	**Mod.**	**Material**	**Kg.**
11015NB	SMART PRO 1-1~ without door lock	1~230 V	2,2	3	2-18 A	18 A	P1	Plastic	1.2
11015	SMART PRO 1-1~	1~230 V	2,2	3	2-18 A	18 A	P2	Plastic	1.5
11016	SMART PRO 1-3~/7,5	3~400 V	7,5	10	2-16 A	16 A	P2	Plastic	2.3
11017	SMART PRO 1-3~/11	3~400 V	11	15	16-25 A	25 A	P2	Plastic	2.5
11018	SMART PRO 1-3~/15	3~400 V	15	20	16-32 A	32 A	P2	Plastic	3

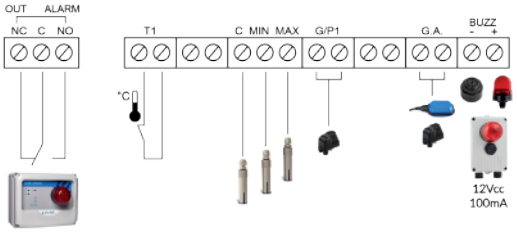
Type of connection 1



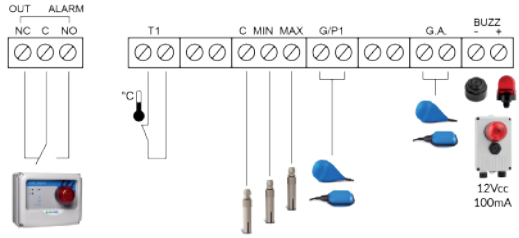
Type of connection 2



Type of connection 3



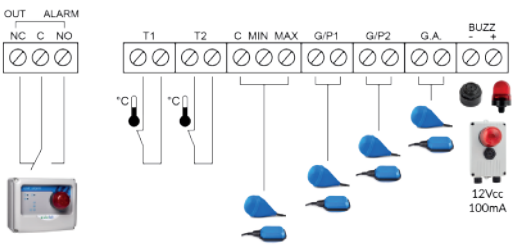
Type of connection 4



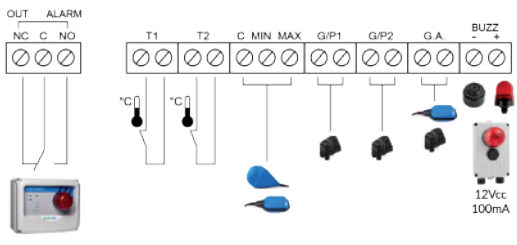
smart PRO 2

			Maximum power		Current		Box		W
Code	**Model**	**Voltage**	**Kw**	**Hp**	**Range**	**Max**	**Mod.**	**Material**	**Kg.**
12015NB	SMART PRO 2-1~ without door lock	1~230 V	2,2	3	2-18 A	18 A	P1	Plastico	1.2
12015	SMART PRO 2-1~	1~230 V	2,2	3	2-18 A	18 A	P2	Plastico	1.5
12016	SMART PRO 2-3~/7,5	3~400 V	7,5	10	2-16 A	16 A	P2	Plastico	2.5
12017	SMART PRO 2-3~/11	3~400 V	11	15	16-25 A	25 A	P3	Plastico	3
12018	SMART PRO 2-3~/15	3~400 V	15	20	16-32 A	32 A	P3	Plastico	3.5

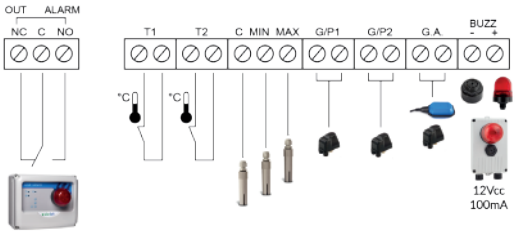
Type of connection 1



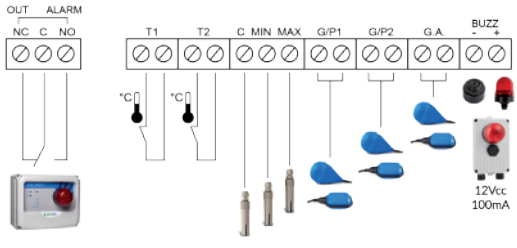
Type of connection 2



Type of connection 3



Type of connection 4



ACCESSORIES

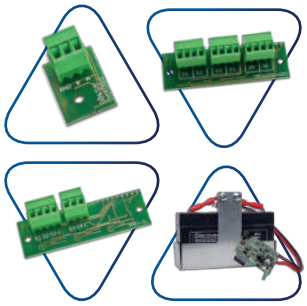
Code	Model	Description
98007	K3SL	Kit of 3 level probes (electrodes)
99050	PM/5	Pressure switch 1-5 bar
99051	PM/12	Pressure switch 3-12 bar
98003.012	AA-12Vdc	90 dB 12Vdc acoustic alarm
98004.012	LL-12Vac/dc	12V AC/DC flashing alarm lamp
98022	FE	Emergency stop button
98029	DT	Daily mechanical timer
98030	WT	Digital weekly timer
98032	TPL	Pause/work timer
98033	CI24Vac	External 24Vac command for activation/turn off of load
98033A	CI230Vac	External 230Vac command for activation/turn off of load



EXPANSIONS

Code	Model	Description
98102	PRO-XPS	PROXPS RS485 Modbus module
98103*	PRO-SL	PRO-SL level sensor module
98104*	PRO-H2O	PRO-SL H2O water presence module in oil chamber
98105*	PRO-6DO	BMS module with clean contacts
98106	PRO-DBT	PRODBT backup battery module
98107	PRO-BT	Bluetooth module for App PROXPS-BT

*It is possible to choose only one between the expansions: 98103 / 98104 / 98105

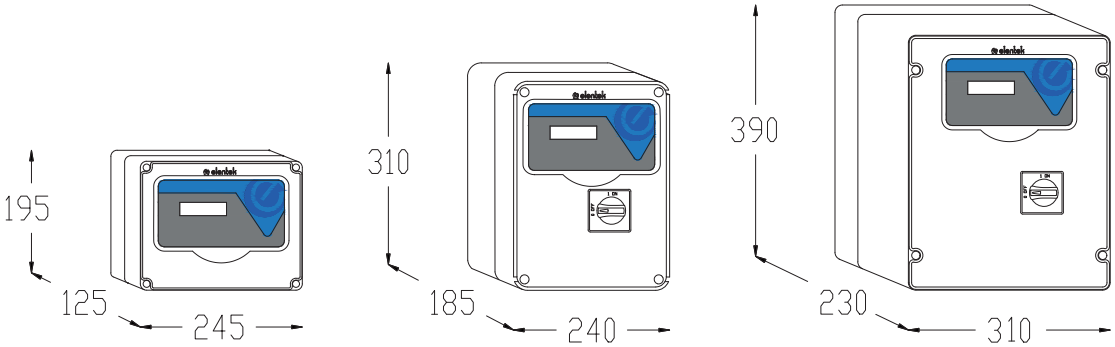


RELATED PRODUCTS

Code	Model	Description
99034	FLO 10	Neoprene cable float, 10 m length
99036	DROP 10	Variable tilt float with neoprene cable, 10 m length
99039	SHELL	Polypropylene counterweight for floats
01503	FLASH 12	Acoustic/visual alarm panel
01500	UNIT ALARM 1	Acoustic alarm panel with backup battery
01501	UNIT ALARM 2	Acoustic/visual alarm panel with backup battery
01502	UNIT ALARM GSM	Acoustic/visual alarm panel with backup battery and GSM kit
97007	E-KIOSK	Polyethylene panel stand
pag. 72	MANIFOLD	Stainless steel collectors
99009	BASE FULL	Base for pressure groups with 2 horizontal and vertical pumps



DIMENSIONS



P1 P2 P3