Control Panels

Control Panel Comparison -

EMCP 4.2B vs GCCP 1.2/1.3

	EMCP 4.2B	GCCP 1.2 / GCCP1.3
Protections		
Short circuit alarm	✓	✓
AC under / over voltage	✓	✓
AC under / over frequency	✓	✓
AC overcurrent	✓	✓
Low oil pressure	Warning & Shutdown	Warning & Shutdown
High engine temperature	Warning & Shutdown	Warning & Shutdown
Over speed	Warning & Shutdown	Warning & Shutdown
kW overload	✓	✓
Low battery voltage	✓	✓
Reverse power protection	✓	✓
Unbalanced load protection	✓	✓
Fuel usage monitor and low fuel alarms	✓	✓
Charge alternator failure alarm	✓	✓
Engine pre-heat	✓	✓
Engine post-heat	–	✓
Engine idle control for starting & stopping	✓	✓
Gen AC voltage sensing	✓	✓
Gen AC current sensing	✓	✓
Frequency	✓	✓
Oil pressure	✓	✓
Engine temperature	✓	✓
Hours run	✓	✓
Gen kW	✓	✓
Gen kVA	✓	✓
Gen kVAr	✓	✓
Basic power monitor kVA / kW	✓	✓
Advanced power monitor (kWh / kVAR / pf etc.)	✓	✓
Gen power factor	✓	✓
Gen kWh	✓	✓
Gen kVARh	✓	✓
Battery Voltage	✓	✓

Key
✓ Standard – Not available ✓✓ GCCP1.3 only

	EMCP 4.2B	GCCP 1.2 / GCCP1.3
Mains PF	–	✓✓
Mains Amps	–	✓✓
Mains kW	–	✓✓
Mains kVA	–	✓✓
Mains kVAR	–	✓✓
Interface Features		
Dedicated load test button	–	✓
Overall size	308 x 217 x 51	245 x 184 x 51
Automatic start / manual start	✓	✓
Back-lit LCD	✓	✓
Multiple display languages	✓	✓
Five key menu navigation	–	✓
Breaker control via fascia	–	✓
Flexible LED indicators	–	LCD Screen
Input/output		
Total outputs	10	8
Spare digital output when all the options are selected	3	3
Digital outputs	2	8
Total digital inputs	8 (Including Estop)	8 + Estop
Spare digital Inputs when all the options are selected	2	1
Total analog inputs	3	4
Expansion		
Input / output extension compatable	✓	✓
Remote annunciator compatible	✓	✓
Data Logging		
Event log	-	250
Log warnings	✓	✓
Real time clock	✓	✓
Communications		
CAN (J1939 ECU support)	✓	✓
RS485	✓	✓
AMF Features		
AMF control	✓	✓✓
Gen / mains contactor control	✓	✓✓
3 Phase Mains sensing and protection	-	✓✓
Automatic Load transfer control	-	✓✓
Gen / mains breaker position Inputs	✓	✓✓

Key
✓ Standard – Not available ✓✓ GCCP1.3 only

	EMCP 4.2B	GCCP 1.2 / GCCP1.3
Other Features		
Engine run-time scheduler	✓	✓
PLC functionality	✓	✓
Configurable alarms and timers	✓	✓
Configurable start and stop timers	✓	✓
Configurable maintenance alarms	✓	✓
Power safe mode	✓	✓
Fuel usage alarm	✓	✓

Key
✓ Standard – Not available ✓✓ GCCP1.3 only