



Standard PowerCore

Panel I/O Pin Out Comparison

21 Pin Deutsch Connector Assignments are the same for all PowerCore products.

Pin	ML2000, ML1000, TEC-10
A	Reserved
B	Battery (+) Dedicated Input
C	Reserved
D	Starter / Crank 10 amp. B (+) Relay 1
E	Battery (-) Ground Dedicated Input
F	Reserved
G	Fuel / ECU Enable 10 amp. B (+) Relay 2
H	Reserved
J	Alternator Excite 10 amp. (MPC20), 1 amp. B (+) (MPC10 & TEC-10) Dedicated Digital Output
K	Reserved
L	Reserved
M	Reserved
N	Reserved
P	Reserved
R	Throttle Decrease (AT03069) 1 amp. B (-) Digital Out 3
S	Throttle Increase (AT03069) 1 amp. B (-) Digital Out 3
T	Frequency Dedicated Input
U	J1939 CAN LO Dedicated In
V	J1939 CAN HI Dedicated Input
W	Temp. Sender (resistive) Analog In 2
X	Press. Sender (resistive) Analog In1

31 Pin Deutsch Connector assignments

31-Pin	ML2000	ML1000	TEC-10
1	4-20mA Return (loop power) B (+) Dedicated Output	4-20mA Return (loop power) B (+) Dedicated Output	Not Available
2	Common Alarm 10 amp. B (+) N.C. Relay 3	Reserved	Reserved
3	Reserved	Reserved	Reserved
4	Pre-Start 10 amp. (dry) N.C. Relay 6	Reserved	Reserved
5	Shutdown 10 amp. B (-) N.C. Relay 4	Reserved	Reserved
6	Shutdown 10 amp. B (-) N.O. Relay 4	Reserved	Reserved
7	Pre-Start 10 amp. (dry) N.O. Relay 6	Reserved	Reserved
8	Common Alarm 10 amp. B (+) N.O. Relay 3	Reserved	Reserved
9	Discharge / Suction Pressure Analog In 3	Spare Analog In 3	Spare Analog In 3
10	Pump High Temperature Analog In 5	Reserved	Reserved
11	Pre-Start 10 amp. (dry) COM. Relay 6	Reserved	Reserved
12	Ambient Temp. Auto Start Analog In 7	Reserved	Reserved
13	Not in Auto 2 amp. B (+) Digital Out 3	Not in Auto 1 amp. B (+) Digital Out 1	Not in Auto 1 amp. B (+) Digital Out 1
14	Float Auto Stop Digital In 3	Float Auto Stop Digital In 3	Float Auto Stop Digital In 3
15	Not Configured 2 amp. 5 Volt B (+) Digital Out 1	Reserved	Reserved
16	Not Configured 2 amp. 5 Volt B (+) Digital Out 2	Reserved	Reserved
17	Clutch 10 amp. (dry) COM Relay 5	Not Configured 10 amp. (dry) COM Relay 3	Not Configured 10 amp. (dry) COM Relay 3
18	Clutch 10 amp. (dry) N.C. Relay 5	Not Configured 10 amp. (dry) N.C. Relay 3	Not Configured 10 amp. (dry) N.C. Relay 3
19	Clutch 10 amp. (dry) N.O. Relay 5	Not Configured 10 amp. (dry) N.O. Relay 3	Not Configured 10 amp. (dry) N.O. Relay 3
20	Low Lube Oil Level Digital In 5	Low Lube Oil Level Digital In 5	Low Lube Oil Level Digital In 5
21	Reserved Digital In 1	Spare Digital In 1	Spare Digital In 1
22	Water in Fuel Digital In 6	Reserved	Reserved
23	Float Auto Start Digital In 2	Float Auto Start Digital In 2	Float Auto Start Digital In 2
24	Engine Running 2 amp. B (+) Digital Out 4	Engine Running 1 amp. B (+) Digital Out 2	Engine Running 1 amp. B (+) Digital Out 2
25	Reserved Analog In 8	Reserved	Reserved

26	System Level Analog In 4	Reserved	Sender Common B (-) Dedicated Output
27	Sender Common B (-) Dedicated Output	Sender Common B (-) Dedicated Output	Reserved
28	Fuel Level Analog In 6	Reserved	Reserved
29	Low Coolant Level Analog In 4	Low Coolant Level Analog In 4	Low Coolant Level Analog In 4
30	RS-485 HI Dedicated Input	RS-485 HI Dedicated Input	RS-485 HI Dedicated Input
31	RS-485 LO Dedicated Input	RS-485 LO Dedicated Input	RS-485 LO Dedicated Input