

# Manual of HRE24

## ● Function

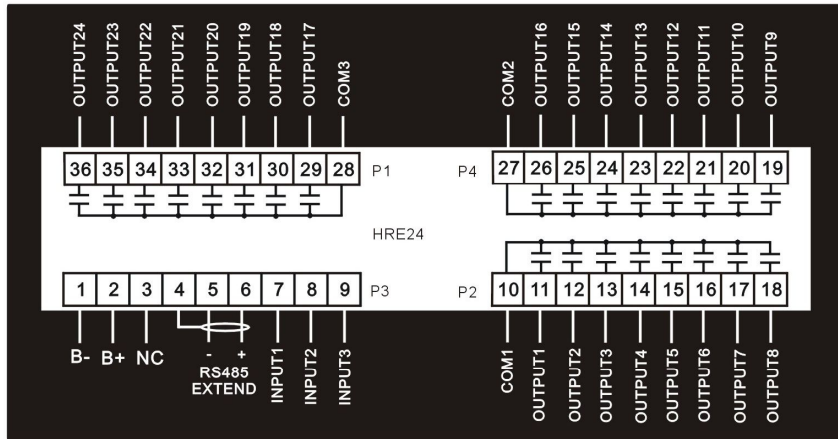
The HRE24 Module has the 24 ports. Each port has the different function. Using built in relay outputs. Passive Ports and 3 Amp rated. Connections to the module are via locking plug and sockets. The RS485 enabled HRE24 modules are able to communicate with a PC or other RS485 enabled device over a standard RS485 connection(the HGM610 and the HAT500).

The following describes the connections and recommended to the 32 plugs and sockets on the rear of the Module.

Port number	Port name	Function	Remarks
1	B-	Input the 18-35 V DC	
2	B+		
3	Not connected		
4	RS485 GND	Connect the RS485 shields the line	
5	RS485-	Communication port	
6	RS485+		
7	Auxiliary input 3	Reset/ Test output	Connect the B- is valid
8	Auxiliary input 2	Low of oil quantity MTAP	Connect the B- is valid
9	Auxiliary input 1	Reserve	Connect the B- is valid
10	Output port common 1	Output 1-8 port common	
11	Auxiliary Output 1	High Coolant Temperature	
12	Auxiliary Output 2	Low Oil Pressure	
13	Auxiliary Output 3	Emergency stop	
14	Auxiliary Output 4	Over speed	
15	Auxiliary Output 5	Low of standing fuel level	
16	Auxiliary Output 6	Low fuel level shutdown	
17	Auxiliary Output 7	Charge fail	
18	Auxiliary Output 8	Start the failure	
19	Auxiliary Output 9	Low battery volts	
20	Auxiliary Output 10	Over current ( Mains)	
21	Auxiliary Output 11	Over current ( Gens)	
22	Auxiliary Output 12	Over voltage (Gens)	
23	Auxiliary Output 13	Low voltage (Gens)	
24	Auxiliary Output 14	Over voltage (Mains)	
25	Auxiliary Output 15	Low voltage (Mains)	
26	Auxiliary Output 16	Over frequency (Mains)	
27	Output port common 2	Output 9-16 port common	
28	Output port common 3	Output 17-24 port common	
29	Auxiliary Output 17	Low frequency ( Mains)	
30	Auxiliary Output 18	Over frequency ( Gens)	
31	Auxiliary Output 19	Low frequency ( Gens)	
32	Auxiliary Output 20	Mains lose	

33	Auxiliary Output 21	Low of oil quantity MTAP	
34	Auxiliary Output 22	Generator on load	
35	Auxiliary Output 23	The ATS breaks / closed	
36	Auxiliary Output 24	Common Alarm	When any of the above 23 outputs is active, this output will active

● **Wiring diagram**



● **INSTALLATION and DIMENSIONS**

