MFR 13 (Multi Function Relay)
WOODWARD
Packages B/C/D/E
Relay 8
(B/C/D/E: Synch-check, not configurable)
Relay 7
Relay 6
Relay 5
Relay 4
Packages A/B/C/D/E
Measuring voltage three-wire or four-wire system
(Measuring voltage N)
Measuring voltage L3
Measuring voltage L2
Measuring voltage L1
s2 (l)
s1 (k)
Measuring current L3
Measuring current L2
Measuring current L1
Packages B/C/D/E
The synchronizing voltage must be connected three-phase if the measuring voltage is connected three-phase (N not connected). If the measuring voltage is connected four-phase (L1-L2-L3-N), the synchronizing voltage may be connected two-phase (L1-L2). L3 is connected only for compensation and is not measured.
Synchronizing voltage three-wire or two-wire system (refer to note above)
(Synchronizing voltage L3)
Synchronizing voltage L2
Synchronizing voltage L1
A/B/C/D: 24 Vdc
E: 90 to 265 Vac/dc
0 Vdc
Blocking of watchdog functions/ remote acknowledgement
Packages C/D/E
Interface Uni-directional [RS-485/Modbus RTU Slave]
A (not inverted)
B (inverted)
GND
A (not inverted)
B (inverted)
Packages D/E
Analog output 3
-20/0/4 to 20 mA
GND
Analog output 2
-20/0/4 to 20 mA
GND
Analog output 1
-20/0/4 to 20 mA
GND
Packages A/B/C/D/E
Relay 3
Relay 2
Relay 1
(Ready for operation)
The socket for the PC configuration is situated on the side of the unit. This is where the DPC must be plugged in.
Packages:
A = Package GP
B = Package GPX
C = Package GPX-I, K08
D = Package GPY-I
E = Package GPY-I-N
D/E
C (kWh impulse)
E (open collector)
supervised system (variable)
synchronizing system (fixed)
3/4
3/4
2/3
CB