

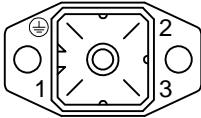
# WIxx.xx.831.xxxxx

Type "DS" D-sub 25 female cable connector and housing is supplied as standard.  
 Option: Type "WS" IP 65 housing, incl. 2 pcs. PG7.  
 Cablepart Type "PS" power connector is supplied as standard.

Software setup:  
 This unit is supplied with standard factory setup, according to following specification.  
 The included serial RS232/485 port is standard for all types, and normally used for setup.  
 In this version (IM831), actual display data is transmitted via serial interface, approx. 1 times each second, to be able to connect a number of display, showing parallel data over long distance (upto 1200 meters). See appl. drawing.  
 Please contact factory for other options.

**230V Version:**

1. AC, Line
2. NC
3. AC, Neutral
4. Earth



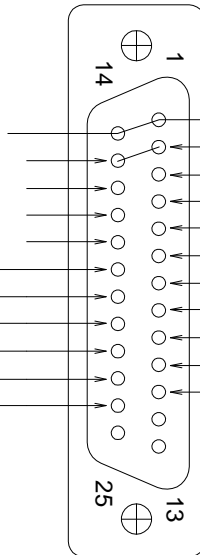
**24Vdc Version:**

1. NC
2. 24V
3. NC
4. 0V

Note: When 240V ac is supplied via the "PS" connector, pin 1+14 is used for 12/24V exit. volt output, max 100mA.

Pin no:

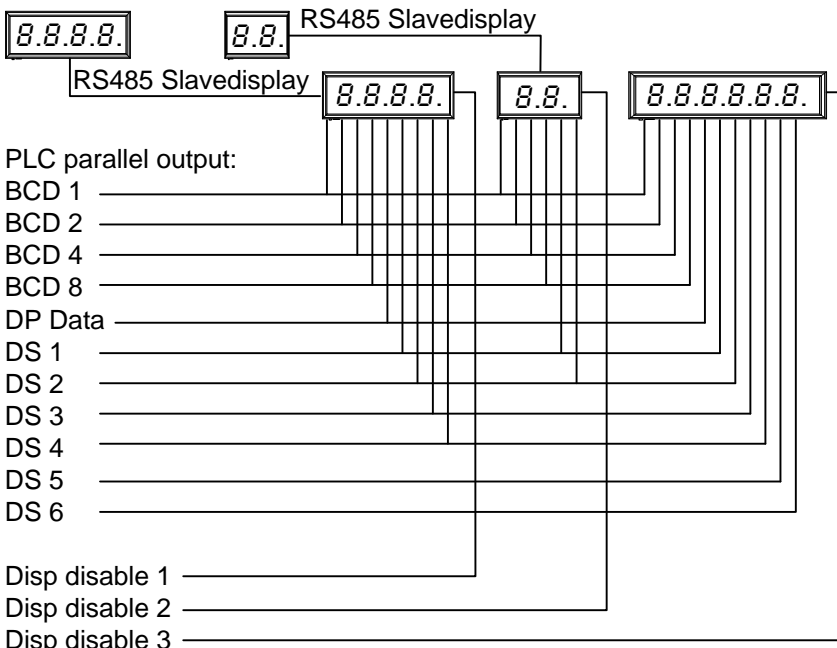
- 16: RTX - RS485, Isolated, use
- 17: RTX+ pin 5 as Signal ground.
- 18: RS485 Select. (Connect to 0V)
- 19: Display disable ( NC/Low = Active display )
- 20: DS 2 digitselect 2
- 21: DS 4 digitselect 4
- 22: DS 6 digitselect 6
- 23: BCD "2"
- 24: BCD "8"



- 1+14: Internally shorted = 24Vdc supply
- 2+15: Internally shorted = 0V supply
- 3: RX - 232 (isolated)
- 4: TX - 232 (isolated)
- 5: S-gnd (isolated) also used for RS485
- 6: DP. data ( set high and select pos. )
- 7: DS 1 digitselect 1 ( most sign. digit )
- 8: DS 3 digitselect 3
- 9: DS 5 digitselect 5
- 10: BCD "1"
- 11: BCD "4"

**Multiplexed BCD communication:**

Normally used for PLC's in Parallel 24V connection. Set BCD data according to binary code, then "strobe" (min. 10ms pulse) the digitselect input according to the position in display (ciffer 1 to max 6, from left to right)  
 Decimalpoint can be added in the same way, by setting DP data input to HIGH, and then "strobe" the digitselect input according to the position in display.  
 Additional Display "disable" input makes it possible to control a number of display in parallel by adding only 1 enable/disable output from PLC pr. display.  
 Simultanius data in several displays can be connected in two ways. Either connect all displays in parallel and leave "display enable" open (short distance), or connect only 1 display to PLC and then connect all RS485 port's in parallel +to+ and -to -, in this way the first display will automatically update all other display. You need only a 2 wire twisted pair, shielded cable, upto 1200 meters distance between all other displays.



BCD input:	Display:
1, 2, 4, 8	
0 0 0 0	0
1 0 0 0	1
0 1 0 0	2
1 1 0 0	3
0 0 1 0	4
1 0 1 0	5
0 1 1 0	6
1 1 1 0	7
0 0 0 1	8
1 0 0 1	9
0 1 0 1	-
1 1 0 1	E
0 0 1 1	H
1 0 1 1	L
0 1 1 1	P
1 1 1 1	(blank)