Application note

0-10V REMOTE INTERFACE
15 TO 25 POINTS UPGRADE

Technix upgrades their machines and informs you.
From septembre 2011, all our units will be delivered in standard with a new 25 pins SubD connector 0-10 V Remote interface instead of the previous 15 pins SubD connector.
This upgrade is the result of many demands from our customers. This note informs you about the differences between the old and the new connection.

The new 25 pins Remote presents all the functionalities of the 15 pins with some new possibilities.
All Inputs/Outputs of the old Remote are available on the new 25 pins with a different pin-out.

Remote 25 pts	Remote 15 pts	Signal	Signal Description	Way
1	8	**HV Off Control**	produced by a fleeting opening to the ground (pin16)	Input
2	7	**Fault Monitor**	Fault information 0V = Fault ; +15V = no default	Output
3	6	**Interlock Monitor**	Open Interlock information 0V = open; +15V= Closed	Output
4	5	**HV On Control**	produced by a fleeting closure to the ground (Pin16)	Input
5	4	**Current Monitor ***	0 to 10 V = 0 to 100% of output voltage	Output
6	3	**Voltage Monitor ***	0 to 10 V = 0 to 100% of output voltage	Output
7	2	**Inhibit Control**	Activated by a TTL or a CMOS signal (3.3 to 24V)	Input
8	1	**Remote Control**	Activate when this pin is connected to ground (Pin16)	Input
9	-	**NC**		
10	-	**Mains Monitor**	0V = Mains is correct ; +15V** = Mains is not correct	Output
11	-	**Power Monitor *** **(only on LPR model)**	0V to 10V = 0 to 100% of the Output Power (only on LPR model)	Output
12	-	**Copy of Local Voltage Setting**	0-10 V copy of the Voltage setting selected with the front panel potentiometer	Output
13	-	**Copy of Local Current Setting**	0-10 V copy of the Current setting selected with the front panel potentiometer	Output
14	15	**Current Setting**	Output current setting 0 to 10 V = 0 to 100%	Input
15	-	**+10V Reference**	+10, V, 5 mA Max	Output
16	9	**0V Digital Ground Ref.**	0V Ground reference for digital signals	Output
17	12	**Voltage setting**	Output voltage setting 0 to 10V = 0 to 100%	Input
18	11	**CCR: End of Charge Monitor** **SR: Regulation Monitor**	CCR: 15V – 10mA max = End of Charge SR: 0V = Current Regulation , +15V** = Voltage Regulation	Output
19	10	**HV On Monitor**	0V = HV off ; +15V = HV on	Output
20	13	**0V Analog. Ground Ref.**	0V Ground reference for Analog signals	Output
21-22-23	-	**NC**		
24	-	**Interlock Control**	Interlock order : Connect this pin to Digital Ground (pin 16) for closing Interlock	Input
25	14	**+10V Reference**	+10, 5 mA Max	Output

The new possibilities of the new 25 pins Remote includes:
- Interlock Control
- Mains monitor
- Copy of Local Voltage and Current settings
- Power monitor (available for LPR models)
- Reduction of the output impedances (470Ω instead of 3,3kΩ before)

* On a serial 470 Ω impedance
** +15V, limited to 10mA