

TECHNICAL SPECIFICATIONS OF ULTRON+ ELECTRONICS



REVISION: R0

S/W_VERSION: 1.0

Batch Ultron+ controller consists of

- 1) CPU with DIO modules
- 2) Display with RS485 communication card
- 3) Dosing Controller

1) CPU with DIO modules -



Memory	8K steps (32 Kbytes)
Memory back up	Max battery service life : 5 years
Dimensions	90 mm *1 (H) x 85 mm *2 (D) x 130 mm (W)
Operating voltage range (Supply voltage)	20.4 to 26.4 vdc (24vdc)
Power consumption	20 W
Ambient operating temp.	0 to 55 deg C
Ambient storage temp.	-20 to 75 deg C
Ambient humidity	10% to 90%
IP class	IP 20

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Digital Input and output	12 DI (24 vdc) and 8 DO (relay o/p ,contact rating 220 vac@2A) built in (DIO-1) 24 DI (24 vdc) and 16 DO (relay o/p ,contact rating 220 vac@2A) expandable (DIO-2) 24 DI (24 vdc) and 16 DO (relay o/p ,contact rating 220 vac@2A) expandable (DIO-3) 24 DI (24 vdc) and 16 DO (relay o/p ,contact rating 220 vac@2A) expandable (DIO-4)
Incremental pulse input -max. frequency -count value	100 kHz:2 counters,10kHz:4 counters 32 bits
Communication	i) RS232 port- (Half duplex , transmission distance 15 mtrs max , 115.2 kbps baud rate, MODBUS-RTU easy master) ii) B type peripheral USB port (USB 2.0 B type connector, transmission distance 5 mtrs max) iii) RS-422A/485 (Additional)
Terminal block	Fixed (not removable)
Terminal screw size	M3
Clock	Accuracy (monthly deviation) -4.5 min to -0.5 min to ambient temp of 55 deg C -2.0 min to +2.0 min to ambient temp of 25 deg C -2.5 min to +1.5 min to ambient temp of 0 deg C

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2) Display-



Type	7 inch TFT
Display resolution	800 (H) x 480 (V)
No of colors	65,536
Backlight	LED
Display touch	Analog resistance membrane , resolution 1024 x 1024
Dimensions	148 mm (H) x 202 mm (W) x 46 mm (D)
Panel cutout	191.0 mm (+0.5/-0) H x 137.0 mm (+0.5/-0) V
Weight	715 g
Internal memory	128 MB
Memory interface	USB
Serial (COM1)	RS -232 C ,transmission distance 15 mtrs max, 9 pin D type connector
Serial (COM2)	RS-232C/422A/485 (not isolated),transmission distance 15 mtrs for RS-232C and 500 mtrs for RS-422A/485 , 9 pin D type connector
Ethernet port	10/100 base-T

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Operating voltage range (Supply voltage)	20.4 to 27.6 vdc (24vdc)
Power consumption	11 W
IP class	IP 65 for front side
Ambient operating temp	0 to 50 deg C
Ambient operating humidity	10% to 90% RH (without condensation)

3) Dosing Controller-



Type	Digital dosing controller
Loadcell connections	4 strain gauged loadcells (4/6 wires)
Communication supported	RS485/CAN/RS232
Operating voltage range (Supply voltage)	10-28 vdc (24vdc)
Max supply current	120 mA
Input sensor range	0-7.8 mV/V
Input sensor resistance	80-1500 ohm
Operating temp range	-10 to +40 deg C
Dimensions	40.5 W X 118 H X 36.5 D, Din Rail Mounting