

Bulk Weighing Solutions & Process Automation

ULTRON+ Controller





About US

About AAG Engineering Bulk Weighing Solutions and Process Automation

AAG Engineering Technologies Pvt Ltd, Mumbai is a well established organisation having vast experience of more than 30 years with business transaction being carried out in India as well as abroad.

The company provides world class solution for bulk weighing system & process automation for process industries & turnkey project execution experts to industries such as steel, cement, power, port, glass, food, chemical, sugar etc. We have rich experience & knowledge in concept selling, designing, engineering, manufacturing, sourcing and erection/commissioning to execute project in Trunkey basis, we are specialised in static/dynamic weighing, batching& bagging systems & Trunkey plant engineering solution.

Our strategy is to provide complete customised solution to our customer to their specification and needs with highest standards/quality with committed delivery, safety & cost effective solution with dedicated service support.

OUR VISION

To emerge as a leader through innovative technology & techniques with commitment to deliver in time, quality, safety and cost effective solution to the satisfaction of our customer with dedicated service support.

OUR MISSION

Exceed our customers' expectations by being the leading provider of safe, responsive, value-added services in the Process industry.





Ultron+ Controller Specifications

General Specifications	
Power Supply	24Vdc, 6W Inbuilt Mains filter. Power Failure Buffering:20ms, after that automatic data retention.
Processor	ARM, 32 bit
Memory	<ul style="list-style-type: none"> o Program – 512K o RAM – 64K : Battery Buffered with 10 yrs. data retention, stores operational data files o EEPROM – 8 K :100 years data retention, stores system parameters, control file and PLC program
RTC	Available
Enclosure	
Enclosure	Aluminum extruded Panel mounted enclosure with plastic bezel
Dimensions	144 mm (w) *72 mm (h) * 250mm (d) (PANEL CUTOUT 138.0 mm x 68.0 mm)
Weight	Approx. 1.5 Kg
Display	
Display Type	4 Line OLED Graphical
Display Resolution	64*128
Display Color	Yellow
Measurement Input Load Cell	
Supply Voltage	Internal 5 V \pm 5 %
Load Cell Inputs	2 Nos., 24bit Sigma Delta ADC
Measuring cable	6/4 wire Technique
Measurement Input Range	0 to 20mv
Load Cell sampling	200 samples/sec



Ultron+ Controller Specifications

Environment Conditions	
Operating Temperature	0 ° C to +50 ° C
Storage Temperature	-20 ° C to +50 ° C
Measurment Input Tacho	
Supply Voltage	Internal 12V ± 5 %
Measuring cable	3 core shielded
Measurement Input Range	10 - 2000 Hz, 12 V
Tacho Input	1 Channel, 8-12Vdc, 5 Khz
Digital Input/output	
Digital Inputs & Outputs - Inbuilt	Inputs 6 Nos.(24 V DC, Opto-coupled) Outputs 8 Nos.(24VDC, Transistorised)
Digital Inputs & Outputs - Optional	Inputs 4 Nos.(24 V DC, Opto-coupled) Outputs 4 Nos.(24VDC, Transistorised) Type - Open PCB, mounting inside Controller
Optional Module	Max 2 nos.
Analog Output	
Analog Inputs & Outputs - Inbuilt	1 No. Each (0-20mA,4-20mA,0-10Vdc optically isolated)
Analog Inputs & Outputs - Optional	1 No. Each (0-20mA,4-20mA,0-10Vdc optically isolated)
Input Function	External Set point
Output Function	Corresponding to any of the following functions including Actual federate, Belt Speed, Belt Load, Weigh Feeder Drive Set point, Pre- Feeder Drive Set point
Optional Modules	Max 2 Nos.



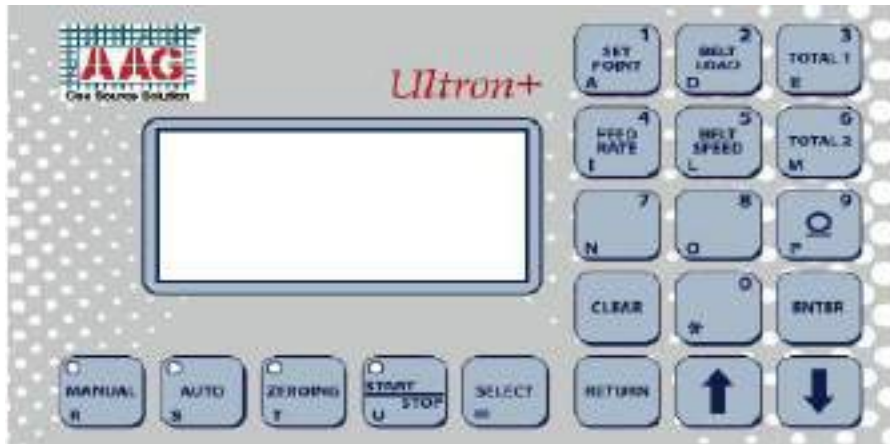
Ultron+ Controller Specifications

RS 485 Communication	
Protocol	RS485 (2 Nos.) Channel 1– For interfacing with Inverters
Transmission	Half duplex, serial bit, asynchronous mode
Baud rate	9600, 19200, 38400
Format	8 bite, 1 stop, No Parity, Even Parity, Odd Parity
Function	Used to interface Modbus
Profibus-DP Slave Interface	
Connector	9pin, DB
Transmission	RS 485
Baud rate	9600 to 12Mbps max
Function	Profibus-DP Slave for PLC/DCS interface
ModBus-TCP Slave Interface	
Connector	RJ 45
Transmission	Ethernet
Baud rate	10/100 mbps
Function	Modbus-TCP for PLC/DCS interface
USB Interface	
Protocol	USB
Function	Interface to PC/Laptop for uploading/downloading parameters

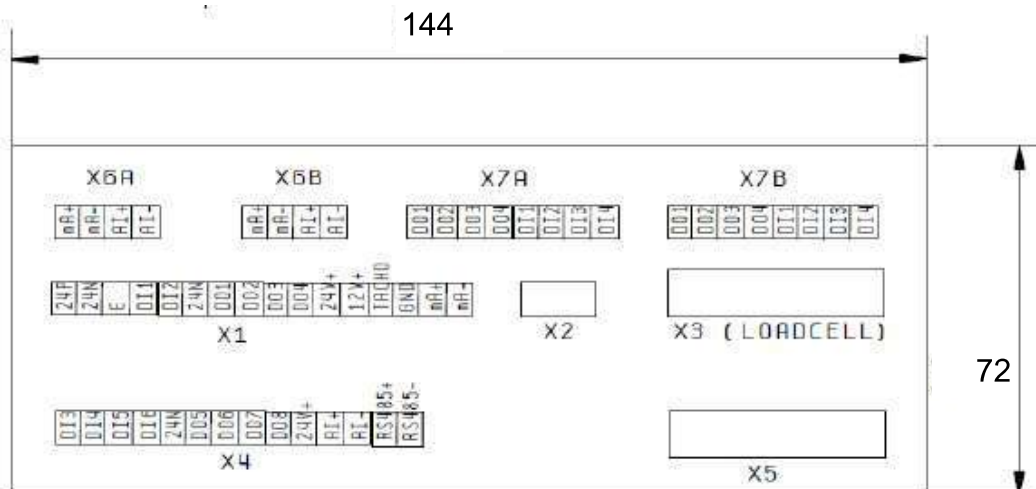


Design

Front Plate - ULTRON+ WEIGH FEEDER



Back Plate





Design

Front Plate - ULTRON+ BLMS



Front Plate - UNTRON+ Loss in Weight



Actual Images of Ultron+



Our services also include...

Building Management Systems *Setting up a high performance building*

Building Management Systems from AAG Engineering Technologies Pvt. Ltd. aims to provide safety, security, resident's comfort and most importantly methods to save energy. We offer an integrated system that combines multiple systems on a dedicated network. Data from these multiple systems is then combined and sent as useful information that guides residents of the building to take necessary actions.

Our Integrated Building Management Systems for Residential buildings, commercial spaces, Hotels and Hospitals consists of following services:

- HVAC
- Lift Management System
- DG Backup
- STP and WTP
- PA system
- Security and Safety Solutions
- Lighting Management



AAG ENGINEERING TECHNOLOGIES PVT. LTD.

Bulk Weighing Solutions • Process Automation • Building Management Systems

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