

# E21 BELT SCALE INTEGRATOR

## OVERVIEW

The SRO Technology E21 belt scale integrator is a cost effective microprocessor based integrator option, ideally suited to quarry and small process plant applications.

Its rugged design makes it an ideal choice for these testing conditions. This integrator has many features other integrators in this class are lacking, making it a strong choice for basic scale applications.

## APPLICATIONS

The integrator is suitable for belt scales (belt weighers, weightometers), weigh feeders and batch control.

## FEATURES

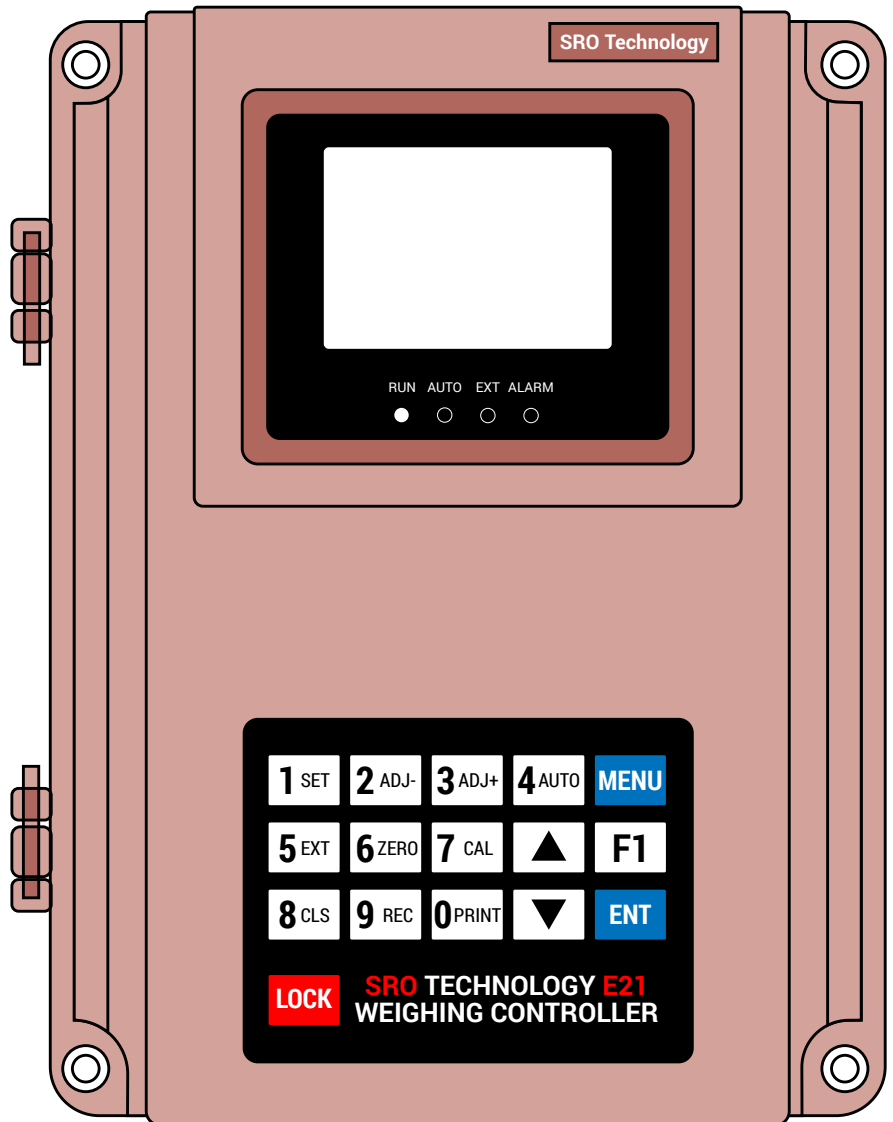
The E21 belt scale integrator features include the following:

- Good EMC noise immunity making it suitable for industrial environments
- Simple operator interface with keypad access via the menu structure or direct entry mode
- Easy to read 128x64 Graphic LCD display screen and tactile keypad with key press tone feedback
- Individual shift, daily and monthly totals can be retrieved and printed

## FUNCTIONS

Has built in functions such as

- Auto-locking
- Key locking/unlocking
- I/O testing
- Auto zero tracking
- Speed calibration
- Belt length calibration



*E21 Belt scale Integrator*



**SRO Technology** Solutions in Measurement

### NSW

Unit 14/70 Holbeche Road  
Arndell Park NSW 2148  
Ph: 02 9525 3077

Email: [sales@srotechnology.com](mailto:sales@srotechnology.com) Web: [www.srotechnology.com](http://www.srotechnology.com)

### QLD

3/27 Kingtel Place  
Geebung QLD 4034  
Ph: 02 3395 6136

### WA

10 Aitken Way  
Kewdale WA 6105  
Ph: 08 9441 3201

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## TECHNICAL SPECIFICATIONS

### DISPLAY

- 128×64 graphic LCD display screen
- Screen has 7 background colours
- Adjustable display refresh: Setting range 0.1 to 2.0 s

### KEYPAD

- Simple 16-key tactile feel keypad
- Menu and direct entry operation with key press tone

### LOADCELL INTERFACE

- Excitation voltage DC 10 V maximum 250 mA [8 x 350 mA loadcells]
- Signal input range: 0~25 mV
- 24-bit ADC
- Sampling frequency: 200 Hz
- Zero drift:  $\pm 0.1 \mu\text{V}/^\circ\text{C}$
- Gain drift:  $\pm 5 \text{ ppm}/^\circ\text{C}$  Maximum non-linearity: 0.005% FS

### SPEED SENSOR INTERFACE

- Output voltage/maximum current: DC 12 V/100 mA
- Speed pulse input range: 0.5 to 3000Hz
- Accepts three wire NPN proximity sensor

### DIGITAL COMMUNICATION INTERFACE

- COM1: Optional
- RS232/RS485/RS422/Profibus-DP/Ethernet modules
- COM2: RS232

### ANALOG SIGNAL INTERFACE

- Two standard definable rate/control analogue output signals 4 to 20 mA
- One flow setpoint, analog signal input 4 to 20 mA

### DIGITAL SIGNAL INTERFACE

- Three normally open switch inputs [DI]
- Four normally open relay switch outputs [DO] AC 250 V / DC 24V, 1 A
- One totalised weight high-speed pulse output [PO] 100 mA, DC 5 to 24 V

### REPORTING

- Weight records per shift, day and month of a year
- Records can be queried and printed
- Operating specifications and dimensions
- Operating supply voltage: ELV supply 24 V DC
- Maximum power consumption: 15 W
- Lithium memory backup battery 3 V DC
- Frame dimensions: 202×305×90mm [W×H×D]
- Weight: Approximately 3.4kg

### TEMPERATURES

- Nominal operating temperature:  $-20^\circ\text{C}$  to  $+40^\circ\text{C}$
- Storage temperature:  $-30^\circ\text{C}$  to  $+60^\circ\text{C}$
- Relative humidity: Maximum 85%
- Protection level: IP65



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