

SI-810

Essae[®]
...for Excellence

A new generation solution of System Indicator to automate & improve the efficiency of all your weighing operations !



Pharma



Dairy



Logistics



Food Processing



Manufacturing

Lot more than a weighing scale...



Bench type

| Basic specification | |
|---------------------|---|
| Model number | SI-810 |
| Description | Digital System scale |
| Weighing units | g, kg, litre, carat (selectable) |
| Display resolution | max. of 1/15,000 (selectable) |
| Internal resolution | 1/6,00,000 |
| Processor | 32-bit ARM Processor |
| ADC | 24-bit precision delta-sigma |
| Weight sensor | Load cell |
| Calibration method | Software calibration |
| Calendar/clock | Date/time available through in-built RTC |
| Weight recording | Automatic or manual |
| Printing data | <ul style="list-style-type: none"> • Bill print (for each transaction) • List print (summary reports) |
| Memory | 4 MB Flash (optionally expandable upto 8 MB) 25,000 transaction records |
| Weight & Measures | Class II & III Model approval from RRSL |

| Environmental Specification | |
|-----------------------------|-------------------------------|
| Power supply | 230V AC, 50 Hz +/-10% |
| Power consumption | 15W (Max) |
| Operating temperature | 0°C to 45°C |
| Operating humidity | Max. 85 % Rh (non-condensing) |

| Mechanical Specification | |
|--------------------------|-----------------------------|
| Console MOC | Stainless Steel SS-304 |
| Console dimensions | 175(W) x 262(L) x 180(H) mm |



Table mount type (option)



Platform type

| Interfaces | |
|------------------------|---|
| Standard Interfaces | 2 x RS-232 Serial |
| | 1 x RS-485 (MODBUS ASCII) |
| | 1 x Centronics Parallel |
| | 6 x Digital I/O |
| Optional Interfaces | 1 x PS/2 Port (for keyboard and/or barcode scanner) |
| | 2 x Potential-free Set point relay output |
| | 2 x RS-232 Serial (additional) |
| | 1 x Ethernet (10/100 Mbps auto negotiation) |
| | Second Platform |
| Optional Analog output | External scale/balance interface through RS-232 Serial interface for select Essae models only |
| Optional Analog output | 4-20mA or 0-20mA or 0-24mA or 0-10V DC or 0-5V DC |

| Display | |
|---------------------|--|
| Display Type | Graphical Dot-matrix LCD |
| Pixels | 256 x 64 |
| Back Light | Green colour |
| Display active area | 102.37mm x 25.57mm |
| Limit Indicators | Red, Green & Orange LED (for Low, OK & High) |

| Keyboard | |
|--------------|-----------------------------|
| Type | Tactile |
| No. of Key | 21 keys |
| Operation | Multi-tap alpha-numeric |
| MOC | Polyester |
| Special keys | 2 x Durable heavy duty keys |

| Optional Accessories | |
|----------------------|---|
| Printer | 40 or 80 column Dot-matrix |
| MS Roller (mm) | 450 x 550, 550 x 650, 700 x 800 |
| Jumbo display | 25mm or 50mm Red LED (RS-232 Serial interface) |
| Lamp | Two Colour tower Lamp (Red and green colour) |
| Others | ? SS-304 Table mount kit for console ? SS Semi Cylindrical Lap pan ? RS-485 Converter |

| Single Load cell platform | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------------|-------------|
| Capacity (kg) | Accuracy (g) | Platform size (mm) | Load cell | Frame work MOC | Platter MOC |
| 3/6/15/30 | 0.2/0.5/1/2 | 360x276 | Aluminium | SS-304 | SS-304 |
| 6/15/30 | 0.5/1/2 | 400x400 | Aluminium | MS | SS |
| 60/150 | 5/10 | 450x550 | Tool Steel-IP67 | MS | SS-304 |
| 150/300 | 10/20 | 550x650 | Tool Steel-IP67 | MS | SS-304 |
| 300/600 | 20/50 | 700x800 | Tool Steel-IP67 | MS | SS/MS |

| Single Load cell platform | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------------|-------------|
| Capacity (kg) | Accuracy (g) | Platform size (mm) | Load cell | Frame work MOC | Platter MOC |
| 6/15/30 | 0.5/1/2 | 360x276 | Tool Steel-IP67 | SS-304 | SS-304 |
| 60/150 | 5/10 | 450x550 | Tool Steel-IP67 | SS-304 | SS-304 |
| 150/300 | 10/20 | 550x650 | Tool Steel-IP67 | SS-304 | SS-304 |
| 300/600 | 20/50 | 700x800 | Tool Steel-IP67 | SS-304 | SS-304 |

| Four Load cell platform | | | | | |
|------------------------------|--------------------------|-------------------------------|-----------------|------------|----------|
| Capacity (kg) | Accuracy (g) | Platform size (mm) | Load cell | Frame work | Platter |
| 600/1000/1500/2000/3000/5000 | 100/200/200/500/500/1000 | 1000x1200/1200x1500/1500x1800 | Tool Steel-IP67 | MS | MS Cheq. |
| 600/1000/1500/2000/3000/5000 | 100/200/200/500/500/1000 | 1000x1200/1200x1500/1500x1800 | Tool Steel-IP67 | MS | SS-304 |
| 600/1000/1500 | 100/200/200 | 1000x1200/1200x1500 | Tool Steel-IP67 | SS-304 | SS-304 |

Sample Bill Print format 1 :

| | |
|--------------------------------|-------------------|
| Essae Teraoka Ltd Bangalore | |
| Sl.No | : 1 |
| Product Name | : M3X6 shim screw |
| Date | : 19-09-2009 |
| Time | : 13:43 |
| Tare Wt | : 0.250 kg |
| Net Wt | : 0.241 kg |
| Gross Wt | : 0.491 kg |
| Quantity | : 10 pcs |
| Remark | : LOW |
| Thank you | |

Sample List Print format 2 :

| | | |
|--|-------------------|-------------|
| CADILLA HEALTH CARE Zydus Towers, Satellite Cross Road Cadilla Health Care Ltd Ahmedabad | | |
| Date | : 17-03-2010 | |
| Product Name | : Influenzum 2005 | |
| Batch No | : 1235 | |
| OP.Name | : Sriram | |
| Sample Size | : 993 | |
| Min | : 0.100 | Max : 0.200 |
| Sl.NO | NET WT | Remarks |
| 132 | 0.253 | HIGH |
| 133 | 0.254 | HIGH |
| 134 | 0.258 | HIGH |
| 135 | 0.259 | HIGH |
| 136 | 0.153 | OK |
| 137 | 0.098 | LOW |
| Total | : 1.275 | |
| Avg Net Wt | : 0.253 | |
| Lowest Wt | : 0.098 | |
| Highest wt | : 0.259 | |
| Std Dev | : 0.069 | |
| Variance | : 0.004 | |
| Rel.Deviation | : 0.327 | |
| No.Of Low | : 1 | |
| No Of OK | : 1 | |
| No Of High | : 4 | |

Sample List Print format 1 :

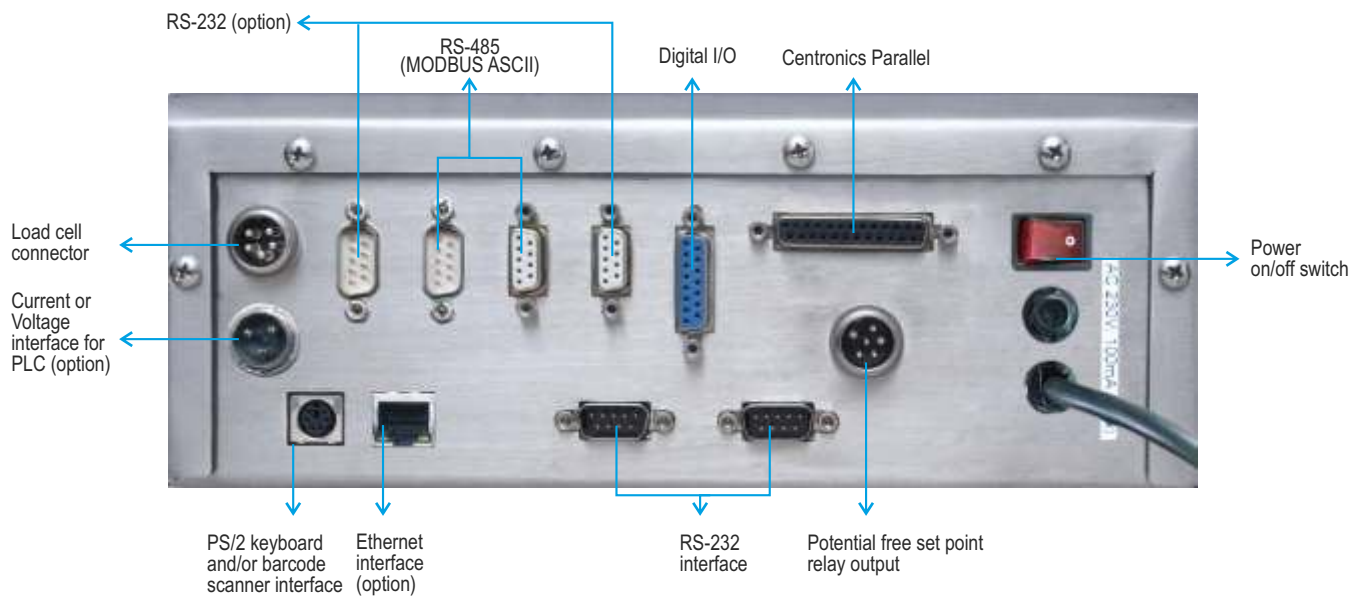
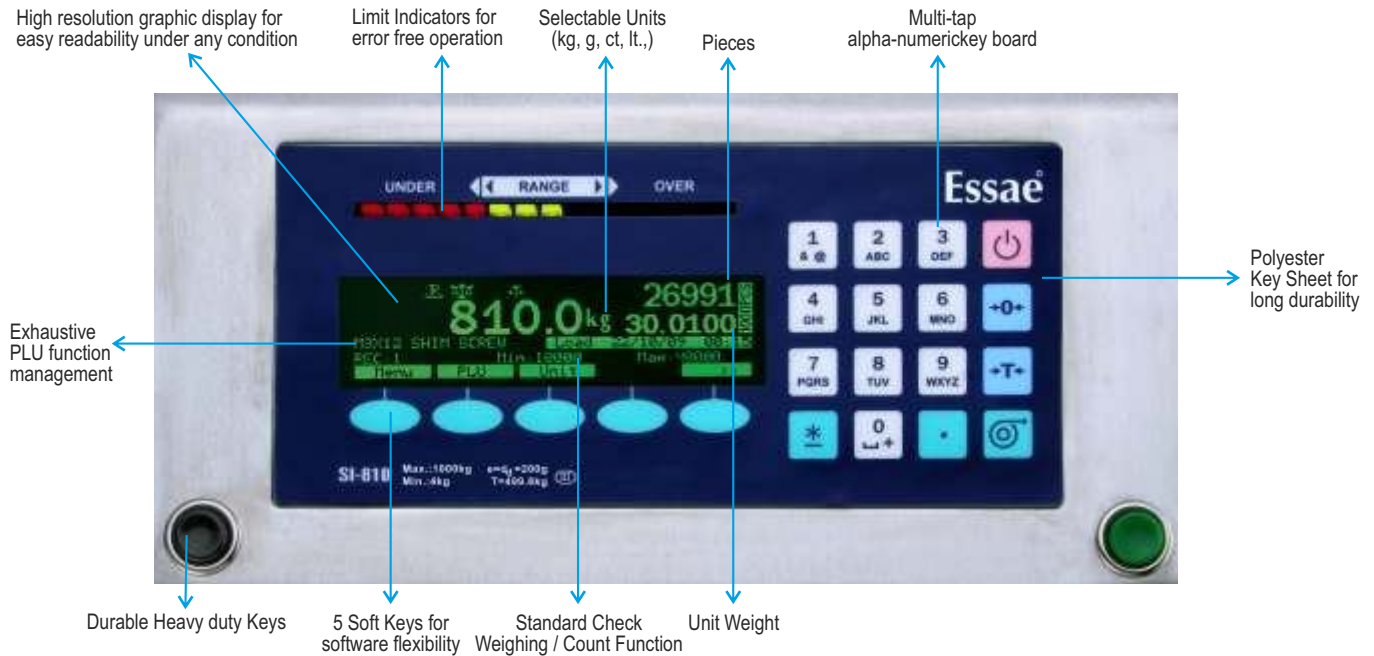
| Essae-Teraoka Ltd Bangalore | | | | | | | | | |
|--------------------------------|------------------|------------|-------|---------|--------|----------|----------|--------|--|
| Sl.No | Product Name | Date | Time | Tare Wt | Net Wt | Gross Wt | Quantity | Remark | |
| 1 | M3X6 shim screw | 19-09-2009 | 13:43 | 0.250 | 0.241 | 0.491 | 10 | LOW | |
| 2 | M3X8 shim screw | 19-09-2009 | 13:44 | 0.000 | 1.476 | 1.476 | 6033 | HIGH | |
| 3 | M3 hex nut | 19-09-2009 | 13:44 | 0.100 | 1.380 | 1.480 | 3115 | HIGH | |
| 4 | M4 spring washer | 19-09-2009 | 13:45 | 0.500 | 0.483 | 0.983 | 9662 | HIGH | |
| 5 | M6 rubber leg | 19-09-2009 | 13:46 | 0.987 | 0.494 | 1.481 | 1501 | HIGH | |
| 6 | M8 hex nut | 19-09-2009 | 13:46 | 0.250 | 1.234 | 1.484 | 4001 | HIGH | |
| | | | | 2.087 | 5.308 | 7.395 | 24322 | | |
| Thank you | | | | | | | | | |



SS-304 Platform type

SPECIAL FEATURES

- 32-bit ARM processor & 24-bit precision delta-sigma ADC
- Selectable filter & stability settings for any weighing application
- Automatic Self-diagnostic function for easy trouble shooting
- Wide variety of configurable printing formats & reports
- Cloning the scale configuration and data for faster and reliable replacement
- User-friendly interactive menus
- Secure access control through password in software
- Flexible application software for PC communication (RS-232 & Ethernet for networking, PLU, File, Field, Menu, Scale management etc.,)
- Optional second platform & external scale/balance interface



Essae-Teraoka Ltd

✉ 410, 100ft Road, 4th Block,
Koramangala, Bengaluru- 560034

☎ 3021 3000

📠 +91 80 3021 3001

✉ info@essae.com

🌐 <http://www.essae.com>

☎ 1-800-425-3111

47 Branches

Factories in Bengaluru & Goa

300+ Resellers

Note: The above model meets the statutory & regulatory requirements as per the provision of legal metrology Act, 2009 & legal metrology (General) Rule, 2011 Specifications are subject to change without notice. Other names & logos used are property of respective brands.