



## Digitizer “D300”

Digitizer “D300” is a microprocessor based state-of-art indicator with sigma delta type 24 bit analog to digital conversion. Standard RS232 communication for continuous weight transmission make it suitable for interfacing with PC software. 'D300' is robust in nature to withstand harsh environmental condition. It can operate reliably over a wide temperature range and also in humid weather.

### Software Features

- Password protected settings
- Multistep calibration procedure to achieve perfect and error free calibration, to get accurate weight
- Dual range system for achieving better accuracy at lower weight range
- Smart calibration to correct minor weight deviation without using actual test weights
- Facility to change calibration password in field
- Calibration data backup and restoring
- Selectable weight Display at power on
- Standard 9pin D type RS232 (Com) port, for continuous transmission of weight at 2400 baud rate
- Auto zero tracking to track zero position
- RS232 communication string can be customized for baud rate, parity & format to match with pre – installed indicators (OPTIONAL)

### Salient Features

- Attractive looks
- Rigid performance
- Easy installation with front four keys
- Customization possible to add strings like Avery, Leo etc.

### Scope of Supply

- Digitizer 'D300'
- Power cable
- Loadcell connector
- Serial communication cable

### Applications:

Public weighbridges

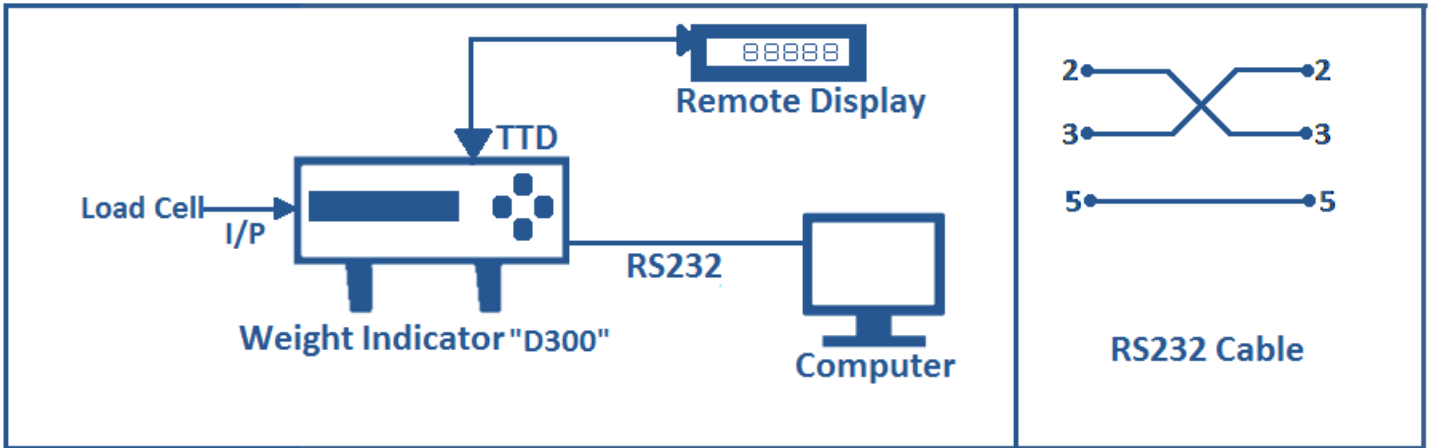
Industrial Weighbridges

Toll Ways

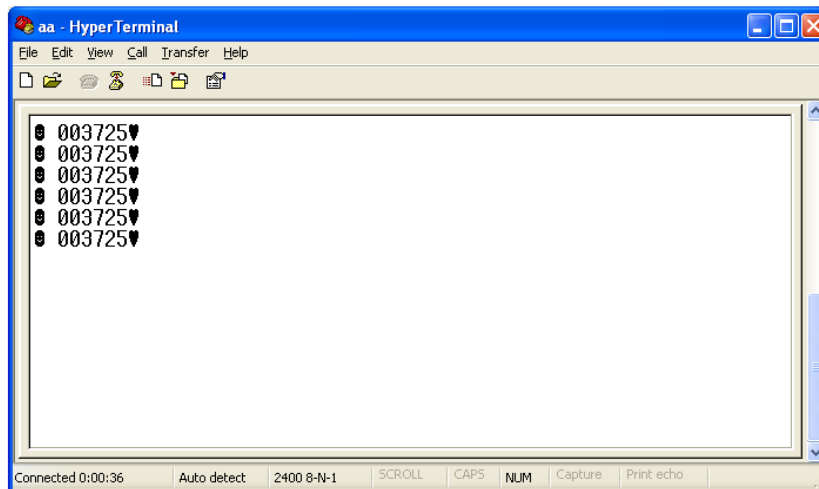
## Hardware Features

- 8051 derivative processor
- Sigma Delta type 24 bit ADC
- Front mount 1" (25mm) LED display
- SMPS power supply
- EMI-RFI filter & spike suppressor for input power
- Front 4-key keyboard
- RS232 port for continuous transmission of current weight
- Table top port for connecting external wired displays

## Peripherals



## Weight on Test Program



## Rear panel



## Specifications :

<b>Processor</b>	8051 derivative
<b>Processor clock frequency</b>	18 MHz
<b>Power supply</b>	SMPS power supply
<b>Input Voltage</b>	90V to 270V AC @ 50Hz
<b>Protection</b>	<ul style="list-style-type: none"><li>* 750mA fuse for input AC mains</li><li>* Input line filter for EMI and RFI suppression</li><li>* Spike suppressor for input transients</li><li>* Opto-isolation of signals and I/Os for high immunity from electrical noise</li></ul>
<b>Power Consumption</b>	10 VA (approx.)
<b>A/D converter</b>	Sigma Delta type with 24 Bit resolution
<b>A/D Clock</b>	5 MHz
<b>Conversion speed</b>	Internal 20 Samples per second
<b>Load cell excitation</b>	8V DC with current capability to drive up to 8 load cells of 350 ohms input resistance.
<b>Signal Sensitivity</b>	0.3 micro volt per division of weight
<b>Display</b>	1" Red LED display
<b>Keyboard</b>	Front four keys
<b>Serial port</b>	Isolated RS232 serial port (9pin D type) for continuous weight transfer
<b>Remote Display Port</b>	Remote display port is provided to show weight by connecting external seven-segment/ day light visible display (2", 4", 6", 8", 12")
<b>Environment</b>	Operating temperature: 0° to 55° Celsius
<b>Humidity:</b>	up to 95% RH non-condensing
<b>Mechanical</b>	Dimensions: 255mm x 280mm x 90mm (WxDxH) Weight : 4.4 kg