Digitizer "D400"

Digitizer "D400" is a microprocessor based state-of-art indicator with sigma delta type 24 bit analog to digital conversion. USB com port for continuous weight transmission make it suitable for interfacing with latest 'PC' that do not have 9 pin D type port for RS232 communication . 'D400' 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 deviations without using actual test weights
- Facility to change calibration password in field
- Calibration data backup and restoring
- Selectable weight Display at power on
- Continuous transmission of weight on Com1 and Com2
- Separate serial string selection for both com ports to use different baud rates & format
- Auto zero tracking to track zero position
- 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 'D400'
- Power cable
- Load cell connector
- Serial communication cable(C#1)
- Driver CD will be provided to configure USB com port
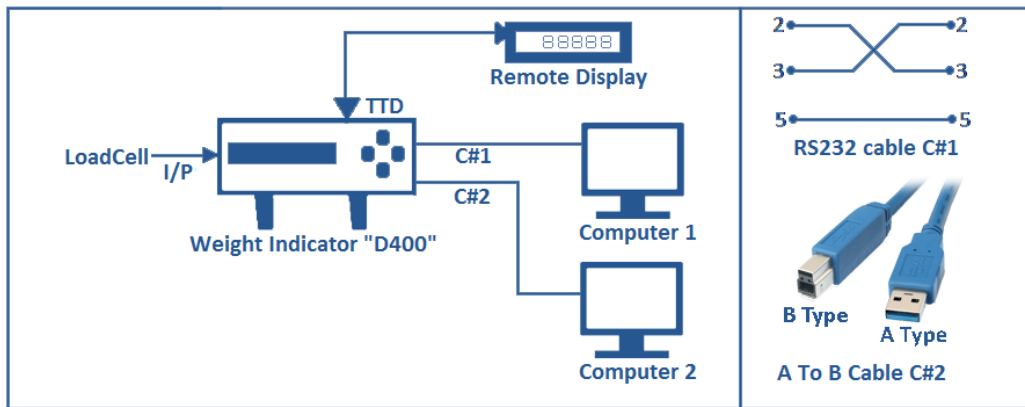
Applications:

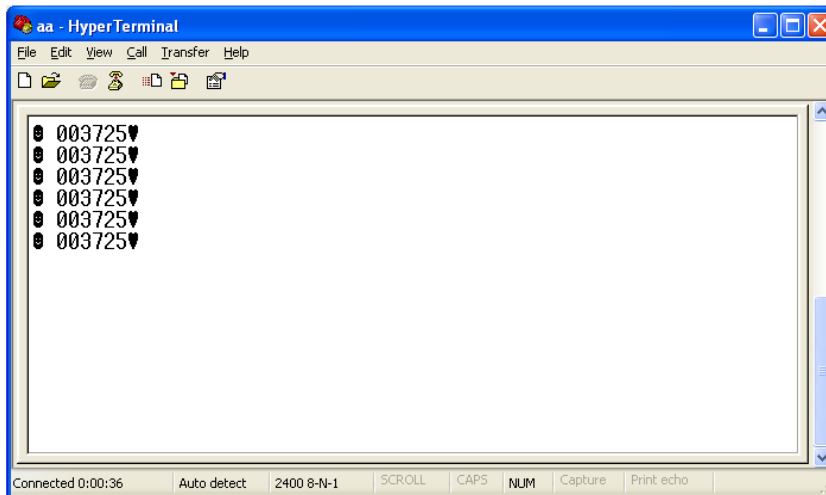| Public weighbridges | Industrial Weighbridges | Toll Ways |

Hardware Features

- 32 bit ARM 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
  - Com port 1: 9 pin D type
  - Com port 2: USB type
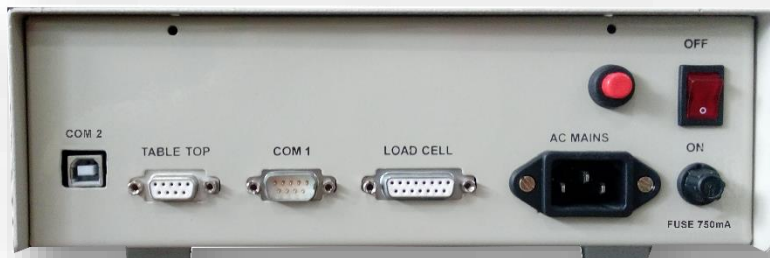- Table top port for connecting external wired displays

Peripherals

Weight on Test Program

Rear panel

Specifications :

Processor	32bit ARM
Processor clock frequency	80 MHz
Power supply	SMPS power supply
Input Voltage	90V to 270V AC @ 50Hz
Protection	* 750mA fuse for input AC mains * Input line filter for EMI and RFI suppression * Spike suppressor for input transients * Opto-isolation of signals and I/Os for high immunity from electrical noise
Power Consumption	10 VA (approx.)
A/D converter	Sigma Delta type with 24 Bit resolution
A/D Clock	5 MHz
Conversion speed	Internal 20 Samples per second
Load cell excitation	8V DC with current capability to drive up to 8 load cells of 350 ohms input resistance.
Signal Sensitivity	0.3 micro volt per division of weight
Display	1" Red LED display
Keyboard	Front four keys
Serial port (com1)	Isolated RS232 serial port (9pin D type) for continuous weight transfer
Serial port (com2)	Isolated RS232 serial port (USB type) for continuous weight transfer
Add On	Expandability of com ports possible
Remote Display Port	Remote display port is provided to show weight by connecting external seven-segment/ day light visible display (2", 4", 6", 8", 12")
Environment	Operating temperature: 0º to 55º Celsius
Humidity	up to 95% RH non-condensing
Mechanical	Dimensions: 255mm x 280mm x 90mm (WxDxH) Weight : 4.4 kg

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