DIGI WEIGH PVT LTD

Digitizer D500

Digitizer “D500” is a microprocessor based state-of-art indicator with sigma delta type 24 bit analog to digital conversion. Continuous transmission of weight using 'Ethernet port', makes it versatile for networking solutions. Due to Ethernet connectivity, device' D500'is accessible from any PC on the network and becomes easily manageable by IT/software development team. 'D500' is also equipped with USB com port & 9 pin D type port for RS232 communication. 'D500' is robust in nature to withstand harsh environmental condition. It can operate reliably over a wide temperature range and also in humid weather.

Scope of Supply

- Digitizer'D500'
- Power cable
- Loadcell connector
- Serial communication cable (C#1)

Features

- Powered by 32 bit ARM processor
- Frontmount1”(25mm) LED display to show weight
- Attractive looks & rigid performance
- Separate serial string selection for all ports to use different baud rates & format
  - Comport1(RS232):9pinDtype
  - Comport2(RS232):USB type
  - Ethernet port(TCP-IP)
- Easy & secured installation with front four keys
- Improved SMPS power supply with EMI-RFI filter & spike suppressor.
- Table top port for connecting external wired display
- Multi step calibration procedure to achieve perfect and error free calibration, to get accurate weight powered by Sigma Delta type 24 bit ADC
- Dual range system for achieving better accuracy at lower weight range
- Facility to change calibration password in field
- Smart calibration to correct minor weight deviation without using actual test weights
- Auto zero tracking to track zero position
- Selectable display of zero/actual weight on power ‘ON’
- Wired Connectivity in LAN network using Ethernet port
- Field settable IP address and other settings
- Connecting multiple D500's on a single network
- Wireless connectivity in LAN network using wireless router
- Customization for RS232 communication string baud rate, parity & format to match with pre installed indicators (optional)
- GLCD front display model also available
- 4-20mA Analog output (optional)

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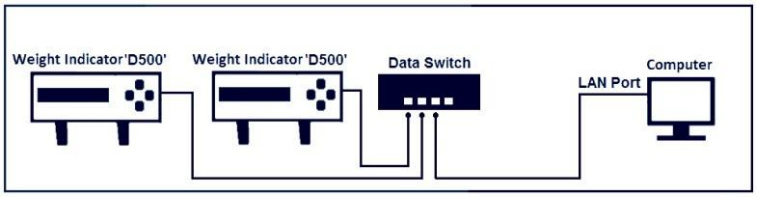
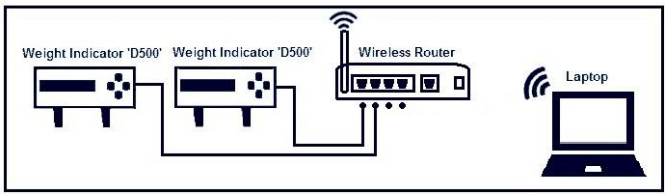
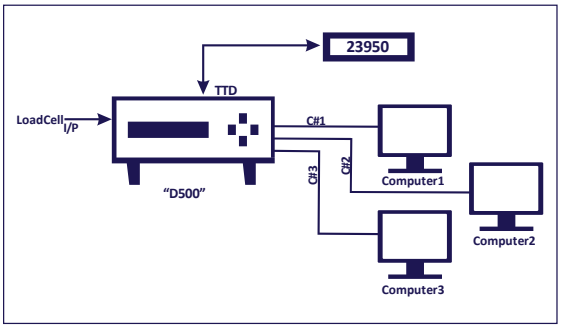
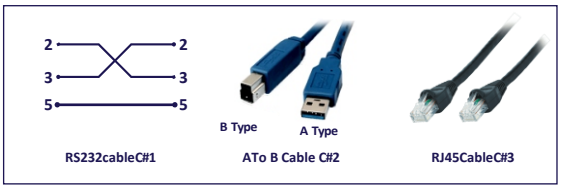
Connection's Schemes









Front Panel

RearPanel

Applications

1. Public Weighbridges
2. Industrial Weighbridges
3. Toll Ways

Technical Specifications

Processor	32bitARM
Processor clock frequency	80MHz
Power supply	SMPS power supply
Input Voltage	90Vto270VAC@50Hz
Protection	* 750mAfuseforinputACmains * Input line filter for EMI and RFI suppression * Spike suppressor for input transients *Op to isolation of signals and I/Os for high immunity from electrical noise
Power Consumption	10VA(approx.)
A/D converter	SigmaDeltatypewith24Bitresolution
A/D Clock	5MHz
Conversion speed	Internal20Samplespersecond
Loadcell excitation	8VDCwithcurrentcapabilitytodriveupto8 loadcellsof350ohmsinputresistance.
Signal Sensitivity	0.3microvoltperdivisionofweight
Display	1"RedLEDdisplay
Keyboard	Front four keys
Serial port(com 1)	IsolatedRS232serialport(9pinDtype)for continuous weight transfer
Serial port(com 2)	IsolatedRS232serialport(USB type) for continuous weight transfer
Ethernet Port	RJ45port(Ethernet port) to connect with a system
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	Operatingtemperature:0°to55°celsius
Humidity	upto95%RHnon-condensing
Mechanical	Dimensions:255x280x90mm(WxDxH)
Weight	4.4kg

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