



WEIGHBRIDGE SOLUTION

Alpha Numeric Digitizer IIT 4500 - TFT

Alpha numeric Digitizer IIT – TFT is a complete weighbridge solution for single weigh platform to work with Appalto Digital Load Cells.



TFT Features

- 7 inch multi color TFT screen display
- Bigger weight font display
- Home screen display to show weight, menu icons, date time
- Strong branding with use of Logo, Header, Footer on Home screen
- Menu based user friendly operation, with reduced passwords
- At a glance view during weighment, view ticket, view report
- At a glance view for group of features on a screen



Other Features

- Sophisticated operations powered by 32 bit ARM processor
- High end protection against lightning and surge using improved SMPS
- Memory of 1 lakh data records
- RS232 communication for continuous weight transmission
- Pendrive dumping to get data records in softcopy
- Dot matrix printer connectivity using centronics / USB port
- USB keyboard connectivity
- Menu based operation with reduced passwords
- Engineer login for security
- Better detailed colorful view
- Easy installation setup and its restorable backup into pen drive
- Field settable color themes for overall appearance
- Multiple SMS features for ease of weighbridge owners and clients
- Operator logins for 5 operators
- Confidential weighment, to trap unweighed passing vehicles
- Dynamic pre-printed setting
- Grain market application for rate, amount,deduction
- Code creation facility
- Vehicle type codification for standard weighment charges
- Email feature (optional)
- GST taxation feature (optional)
- Laser printer compatibility (optional)

MECHEL SYSTEMS AND SERVICES

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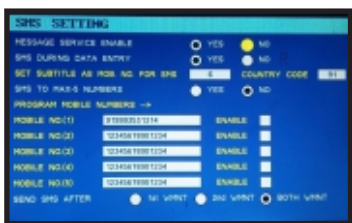
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Field Selectable Themes



Menu Based Operation



Advantage of big Screen



Report Screen



Weight Screen



View On Screen

IIT Features

- Long Distance between weighbridge room and structure
- Lower division size can be obtained, leading to higher accuracy of scale
- Special OEM specific DLC interlocking
- Field settable number of loadcells, upto 16
- Simple and fast Installation
- No need of manual cornering using trim pots & calibration with test weights.
- Automatic fault diagnosis with warning of particular DLC
- Installation report

Technical Specifications

Processor	32bit ARM Processor
Processor Clock Frequency	50 MHz
Real Time Clock	On Board Battery Backed RTC
Memory	Chip based memory to save 1 lac records
Power Supply	SMPS Power Supply
Input Voltage	90 V to 270 V AC @ 50 Hz
Protection	750 mA Fuse for AC mains
	Input line Filter EMI-RFI suppression
	Spike Suppressor for input transients
	Opto Isolation of signals and I/Os for high immunity against electrical noise
Power Consumption	10 VA approx.
Loadcell Excitation	13.5 VDC with 300mA current capability
Display	7" TFT multi colour
Keyboard Port	101 key IBM keyboard (USB type)
USB Port	USB port for connecting pendrive
Printer Port	Isolated Centronics compatible for connecting 80 column dot matrix printer
Serial Port	Isolated RS232 serial port for continuous transmission of weight
Remote Display Port	Remote display port is provided to connect external wired display (0.5" / 1" / 2.3" / 4")
Environment	Operating Temperature : 0 to 55 degree Celsius
	Humidity : up to 95% RH non-condensing



Cup Ball Type DLC

Model : ACB D30

Appalto Digital loadcells are pre-calibrated with standard weights and are capable of transmitting direct weight output in digital form to weight indicators.



Digital Loadcell Features

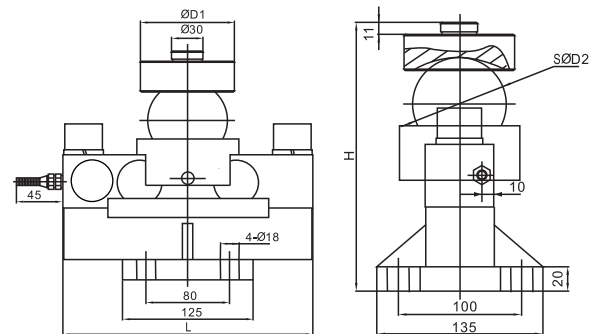
- Pre calibrated : No need of calibration or corner adjustments in field
- Linear output through out full range
- Highly temperature compensated
- Signal integrity against external electrical noise
- Better accuracy, Very simple & Easy installation procedure
- Long distance signal communication between weighbridge indicator and loadcell (Upto 1200 m)
- Advanced in-built Surge/Lightning protection exceeding IEC 61000-4-5 standard
- Tamper proof for weight integrity
- Easy Field replaceability, as factory calibrated

Salient Features

- Galvanized body prevents rusting of body for long time
- Specifically designed cables suitable for harsh environment and better noise immunity
- 16 meter standard cable length
- One year warranty against any manufacturing defect
- Strong technical support for field or design related issues
- "Appalto" is a reputed brand in the Indian weighing industry since 1983

Technical Specifications

Rated capacities (E _{max})	5t, 10t, 20t, 30t, 40t
A/D module resolution	1000000 internal counts
Safe overload	175 % F.S.
Ultimate overload	300 % F.S.
Combined error	0.02 % F.S.
Zero balance	0.1 % F.S.
Temp effect	0.015 % F.S. /10°C
Temp range (Operating)	-35°C ~ + 70°C
Data refresh rate	112 Hz
Input voltage	6 ~ 15V DC
Baud rate	9600 BPS
Signal transmission distance	1200 meter
Protection Class	IP68
Sealing	Laser welded



Rated Load	5T	10,15,20,25,30T	40T
D1	68	85-88	88
D2	50.8	76.2	76.2
H	168.8	224.7	230.7
L	224	240	240

Connections

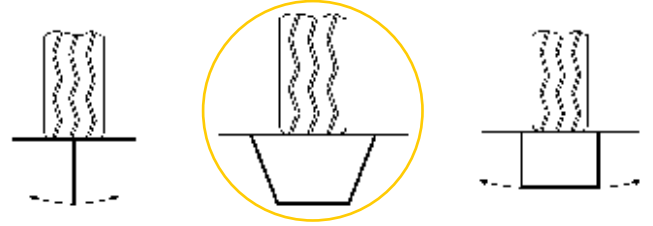
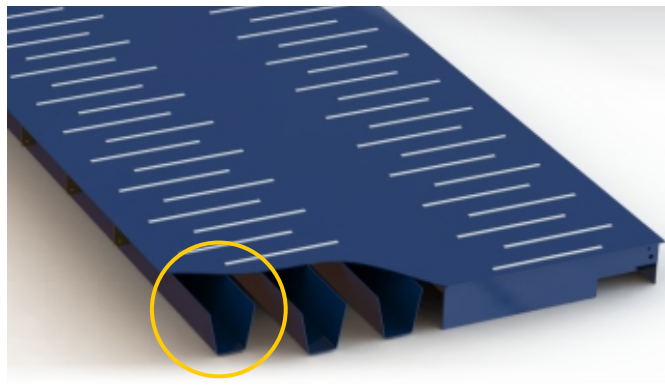
Excitation +	:	Red	Signal +	:	Blue
Excitation -	:	Black	Signal -	:	White



ORTHOTROPIC WEIGH BRIDGE STRUCTURE



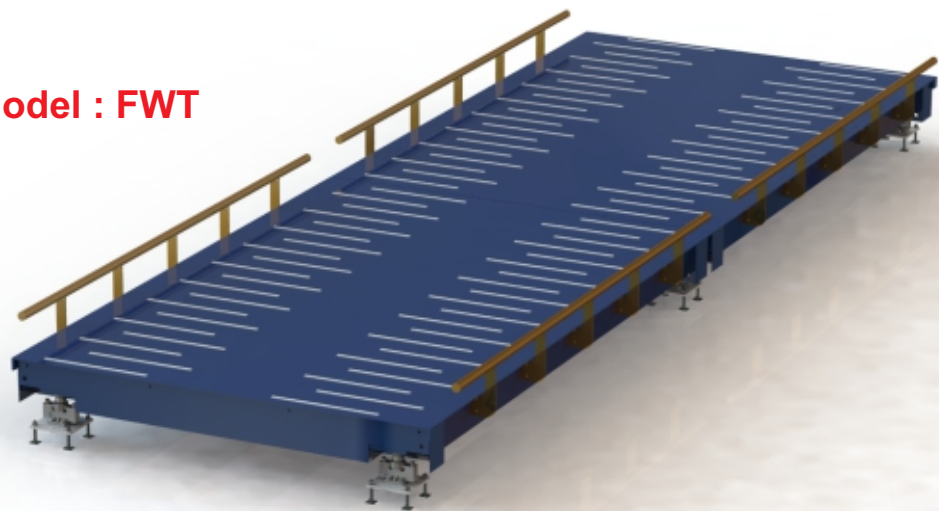
Unique orthotropic design is proven for excellent structural characteristics. It is trusted by engineers for modern bridges/fly-overs all over the world. These structures are technically analyzed for rugged performance, proper load distribution and strength.



FEATURES TRUCK SCALE STRUCTURES

- Use of high grade branded steel plates having yield strength 50% more than conventional available structures
- Anti corrosive property enhanced using pre-treatment process and double layer of epoxy based primer
- High load bearing capacity to structure weight ratio, and factor of safety (FOS)-1.5 for every design
- Every module is manufactured using closed rib orthotropic sections
- Orthotropic sections have much more strength and offer better load distribution than traditional I beam structures
- Minimum deflection even on concentrated loading
- Load is transferred vertically on the loadcells, resulting in highly accurate weighment

Model : FWT



Fully welded type (FWT)

- These structures are built using least required modules
- They provide very good structural characteristics
- Modules are mated together for installation
- Transportable in open body trailer as module width is 3 meters
- Available for sizes 9x3, 12x3, 14x3, 15x3, 16x3, 18x3, 24x3 in different capacities

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