

EQUIPMENT DATA SHEET - MULTI POINT WEIGHING SYSTEM

In response to the marketplaces need for Multi-Point lightweight weighing of flexible structure require in excess of 30 lift points, ALE have designed and built a new low load multi point Digital weighing system nominally capable of Weighing with up to sixty 100Te capacity Hydraulic Jacks and Digicell Load Cells.

Hydraulic Design:

Measured displacement Outlets to 60 Individual pump outlets to the Hydraulic lines to ensure Synchronised lifting regardless of loadings, for up to 60 lift points.

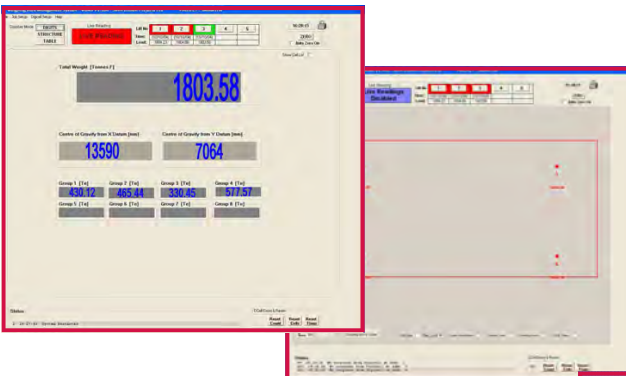
Load Monitoring:

Laptop PC interface with the 'Intelligent Digicell used throughout ALE's weighing fleet - see Data Sheet EQ09.

Laptop system can produce on site weighing reports for client—the comprehensive Weight Report package to be later issued from the UK office of ALE.

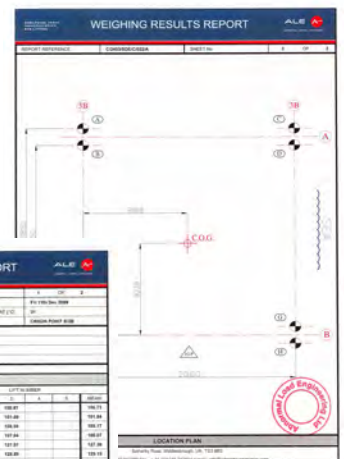
System Packaging:

Self Contained within outfitted 20ft Standard Shipping Container complete with Storage and Workshop.



User Interface:

Remote Control Panel with individual Actuation and control of individual or groups of Jacks.



Calibrations:

The Central Container / workshop Facility is fitted with a Calibrated Master Cell and calibration Rig for the onsite Calibration of Load cells.

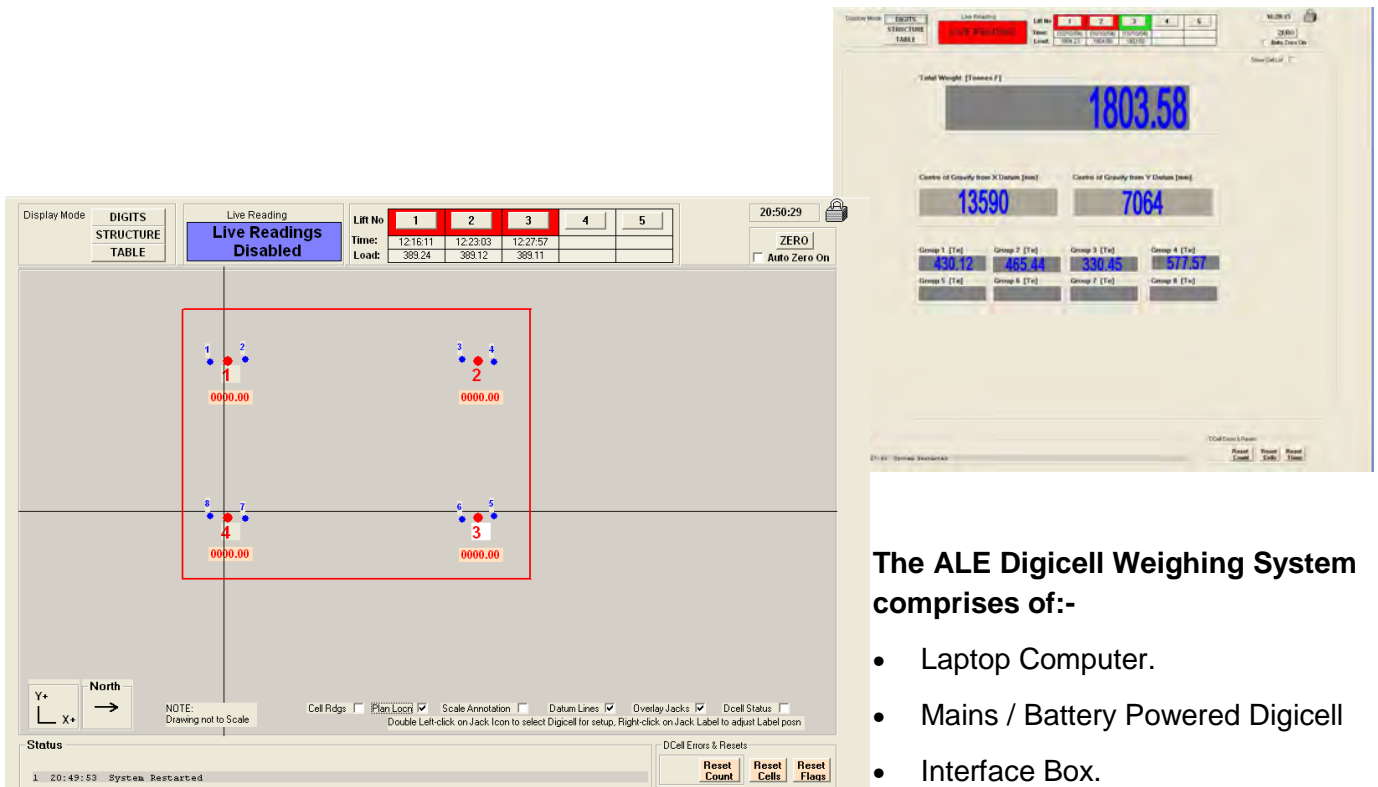
WEIGHING RESULTS REPORT																																																																																																																																																																																																		
Client Information		Job Details		Site Information		Weighing Details		Load Cell Data		Summary																																																																																																																																																																																								
Name	Address	Date	Time	Location	Weather	Operator	Scale	Cell ID	Cell Weight	Total Weight	Accuracy																																																																																																																																																																																							
ABC Company	123 Main St	2024	10:00	Site A	Clear	John Doe	100T	1001	100.00	100.00	±0.1%																																																																																																																																																																																							
<table border="1"> <thead> <tr> <th>Cell ID</th> <th>Weight (kg)</th> <th>Weight (T)</th> </tr> </thead> <tbody> <tr><td>1001</td><td>100.00</td><td>0.100</td></tr> <tr><td>1002</td><td>100.00</td><td>0.100</td></tr> <tr><td>1003</td><td>100.00</td><td>0.100</td></tr> <tr><td>1004</td><td>100.00</td><td>0.100</td></tr> <tr><td>1005</td><td>100.00</td><td>0.100</td></tr> <tr><td>1006</td><td>100.00</td><td>0.100</td></tr> <tr><td>1007</td><td>100.00</td><td>0.100</td></tr> <tr><td>1008</td><td>100.00</td><td>0.100</td></tr> <tr><td>1009</td><td>100.00</td><td>0.100</td></tr> <tr><td>1010</td><td>100.00</td><td>0.100</td></tr> <tr><td>1011</td><td>100.00</td><td>0.100</td></tr> <tr><td>1012</td><td>100.00</td><td>0.100</td></tr> <tr><td>1013</td><td>100.00</td><td>0.100</td></tr> <tr><td>1014</td><td>100.00</td><td>0.100</td></tr> <tr><td>1015</td><td>100.00</td><td>0.100</td></tr> <tr><td>1016</td><td>100.00</td><td>0.100</td></tr> <tr><td>1017</td><td>100.00</td><td>0.100</td></tr> <tr><td>1018</td><td>100.00</td><td>0.100</td></tr> <tr><td>1019</td><td>100.00</td><td>0.100</td></tr> <tr><td>1020</td><td>100.00</td><td>0.100</td></tr> <tr><td>1021</td><td>100.00</td><td>0.100</td></tr> <tr><td>1022</td><td>100.00</td><td>0.100</td></tr> <tr><td>1023</td><td>100.00</td><td>0.100</td></tr> <tr><td>1024</td><td>100.00</td><td>0.100</td></tr> <tr><td>1025</td><td>100.00</td><td>0.100</td></tr> <tr><td>1026</td><td>100.00</td><td>0.100</td></tr> <tr><td>1027</td><td>100.00</td><td>0.100</td></tr> <tr><td>1028</td><td>100.00</td><td>0.100</td></tr> <tr><td>1029</td><td>100.00</td><td>0.100</td></tr> <tr><td>1030</td><td>100.00</td><td>0.100</td></tr> <tr><td>1031</td><td>100.00</td><td>0.100</td></tr> <tr><td>1032</td><td>100.00</td><td>0.100</td></tr> <tr><td>1033</td><td>100.00</td><td>0.100</td></tr> <tr><td>1034</td><td>100.00</td><td>0.100</td></tr> <tr><td>1035</td><td>100.00</td><td>0.100</td></tr> <tr><td>1036</td><td>100.00</td><td>0.100</td></tr> <tr><td>1037</td><td>100.00</td><td>0.100</td></tr> <tr><td>1038</td><td>100.00</td><td>0.100</td></tr> <tr><td>1039</td><td>100.00</td><td>0.100</td></tr> <tr><td>1040</td><td>100.00</td><td>0.100</td></tr> <tr><td>1041</td><td>100.00</td><td>0.100</td></tr> <tr><td>1042</td><td>100.00</td><td>0.100</td></tr> <tr><td>1043</td><td>100.00</td><td>0.100</td></tr> <tr><td>1044</td><td>100.00</td><td>0.100</td></tr> <tr><td>1045</td><td>100.00</td><td>0.100</td></tr> <tr><td>1046</td><td>100.00</td><td>0.100</td></tr> <tr><td>1047</td><td>100.00</td><td>0.100</td></tr> <tr><td>1048</td><td>100.00</td><td>0.100</td></tr> <tr><td>1049</td><td>100.00</td><td>0.100</td></tr> <tr><td>1050</td><td>100.00</td><td>0.100</td></tr> <tr><td>1051</td><td>100.00</td><td>0.100</td></tr> <tr><td>1052</td><td>100.00</td><td>0.100</td></tr> <tr><td>1053</td><td>100.00</td><td>0.100</td></tr> <tr><td>1054</td><td>100.00</td><td>0.100</td></tr> <tr><td>1055</td><td>100.00</td><td>0.100</td></tr> <tr><td>1056</td><td>100.00</td><td>0.100</td></tr> <tr><td>1057</td><td>100.00</td><td>0.100</td></tr> <tr><td>1058</td><td>100.00</td><td>0.100</td></tr> <tr><td>1059</td><td>100.00</td><td>0.100</td></tr> <tr><td>1060</td><td>100.00</td><td>0.100</td></tr> </tbody> </table>												Cell ID	Weight (kg)	Weight (T)	1001	100.00	0.100	1002	100.00	0.100	1003	100.00	0.100	1004	100.00	0.100	1005	100.00	0.100	1006	100.00	0.100	1007	100.00	0.100	1008	100.00	0.100	1009	100.00	0.100	1010	100.00	0.100	1011	100.00	0.100	1012	100.00	0.100	1013	100.00	0.100	1014	100.00	0.100	1015	100.00	0.100	1016	100.00	0.100	1017	100.00	0.100	1018	100.00	0.100	1019	100.00	0.100	1020	100.00	0.100	1021	100.00	0.100	1022	100.00	0.100	1023	100.00	0.100	1024	100.00	0.100	1025	100.00	0.100	1026	100.00	0.100	1027	100.00	0.100	1028	100.00	0.100	1029	100.00	0.100	1030	100.00	0.100	1031	100.00	0.100	1032	100.00	0.100	1033	100.00	0.100	1034	100.00	0.100	1035	100.00	0.100	1036	100.00	0.100	1037	100.00	0.100	1038	100.00	0.100	1039	100.00	0.100	1040	100.00	0.100	1041	100.00	0.100	1042	100.00	0.100	1043	100.00	0.100	1044	100.00	0.100	1045	100.00	0.100	1046	100.00	0.100	1047	100.00	0.100	1048	100.00	0.100	1049	100.00	0.100	1050	100.00	0.100	1051	100.00	0.100	1052	100.00	0.100	1053	100.00	0.100	1054	100.00	0.100	1055	100.00	0.100	1056	100.00	0.100	1057	100.00	0.100	1058	100.00	0.100	1059	100.00	0.100	1060	100.00	0.100
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<p>STATEMENT OF VERIFICATION</p> <p>Checked by: [Signature] Date: 10/10/2024</p> <p>Approved by: [Signature] Date: 10/10/2024</p> <p>Witnessed by: [Signature] Date: 10/10/2024</p> <p>SEE ATTACHED SHEET FOR LOCATION PLAN</p>																																																																																																																																																																																																		

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- The Digicell Weighing System uses a distributed multi-drop network of Load Cells typically used in ALE fleet of high capacity Hydraulic Weighing Jacks.
- Up to 32 Digicell equipped Load Cells can be connected together in a daisy-chain network via a Digicell Interface Unit.
- A maximum cable run of 500m from Cell to Cell or operator is supported with full battery back-up.
- The Laptop or PC interface provides real-time live feedback of individual or group loads, total weight and Centre of Gravity shown on the screen during the weighing.
- Calibration Information is stored in each individual 'Intelligent' Digicell.
- Generic Laptop PC software allows contingency and back up system replacement to be set up without the need for the manufacture of specialist equipment.
- Client can receive an on site print out or electronic copy of weight report on completion of the last lift.



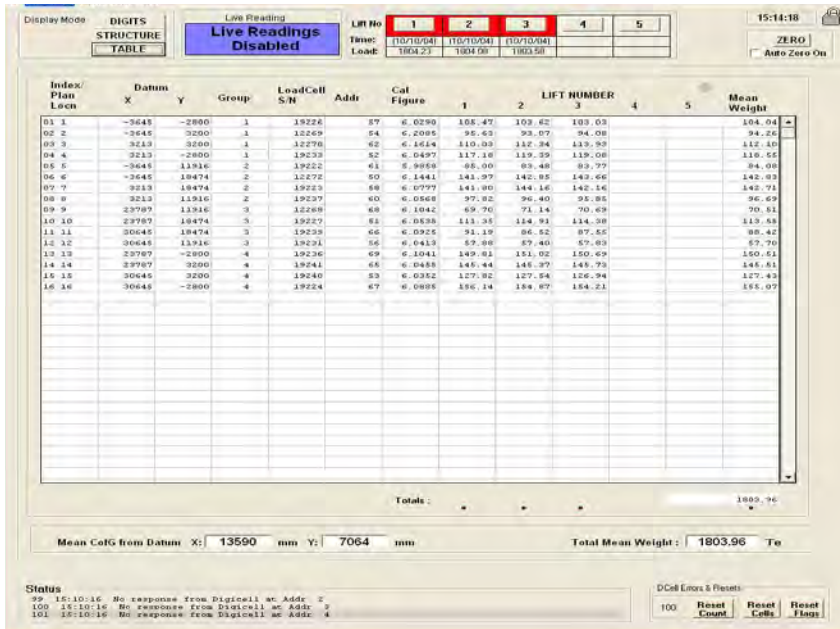
The ALE Digicell Weighing System comprises of:-

- Laptop Computer.
- Mains / Battery Powered Digicell
- Interface Box.
- Digicell Equipped Load Cells.
- In House Designed Digicell Weighing Software.

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EQUIPMENT DATA SHEET - MULTI POINT WEIGHING SYSTEM



Index/ Plan Locn	Datum X	Y	Group	LoadCell SN	Addr	Cat Figure	1	2	LIFT NUMBER 3	4	5	Mean Weight
01 1	-2645	-2800	1	19224	57	6.0290	108.47	103.42	103.03			104.94
02 2	-2645	3200	1	12249	54	6.2085	95.63	93.07	94.08			94.26
03 3	3213	3200	1	12270	62	6.1514	110.03	112.24	113.93			112.10
04 4	3213	-2800	1	19223	52	6.0497	117.10	119.39	119.08			119.55
05 5	-2645	13916	2	19222	41	6.9959	85.00	83.48	83.97			84.08
06 6	-2645	10474	2	12272	50	6.1441	141.97	142.85	143.66			142.83
07 7	3213	10474	2	19223	58	6.0777	141.90	144.16	142.16			142.71
08 8	3213	13916	2	19227	60	6.0568	97.82	96.40	95.86			96.69
09 9	23707	13916	3	12268	68	6.1042	69.70	71.14	70.63			70.61
10 10	23707	10474	3	19227	61	6.0538	113.39	114.91	114.38			113.88
11 11	30645	10474	3	19229	64	6.0325	91.19	86.52	87.55			89.42
12 12	30645	13916	3	19231	56	6.0413	57.86	57.40	57.63			57.70
13 13	23707	-2800	4	19226	69	6.1041	149.01	151.02	150.69			150.61
14 14	23707	3200	4	19241	65	6.0483	145.44	148.97	145.73			146.51
15 15	30645	3200	4	19240	63	6.0352	127.82	127.54	126.94			127.43
16 16	30645	-2800	4	19224	67	6.0885	136.14	138.87	134.21			135.07
Totals :												1803.96

Mean CoG from Datum X: 13590 mm Y: 7064 mm Total Mean Weight: 1803.96 T

ALE can set up the weight system software prior to arrival on site, minimising the set up period of the monitoring system on site.

Lift point Co-ordinates obtained from the client are entered into the system.

The bespoke software / PC interrogates the individual Digicell in the installed 'circuit' to retrieve the

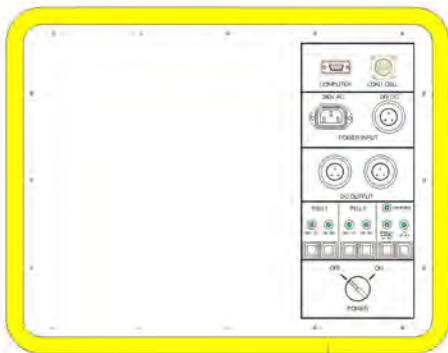
calibration details (calibration date, loadcell Serial number, calibration figure, Weightor Jack Serial number)

The monitoring system is typically positioned outside the perimeter of the module. The Laptop / PC is connected to a Digicell Interface Box using a standard USB/Comm Cable. An Armoured cable is connect to each Digicell in a daisy chain configuration.

After a system check and scan, the Digicell addresses are copied into the correct location into the weighing

Database file and the system is ready to commence the weighing.

Weighing results are saved on the PC and printed in a PDF format, or to a portable printer for client issue.



For reference only

