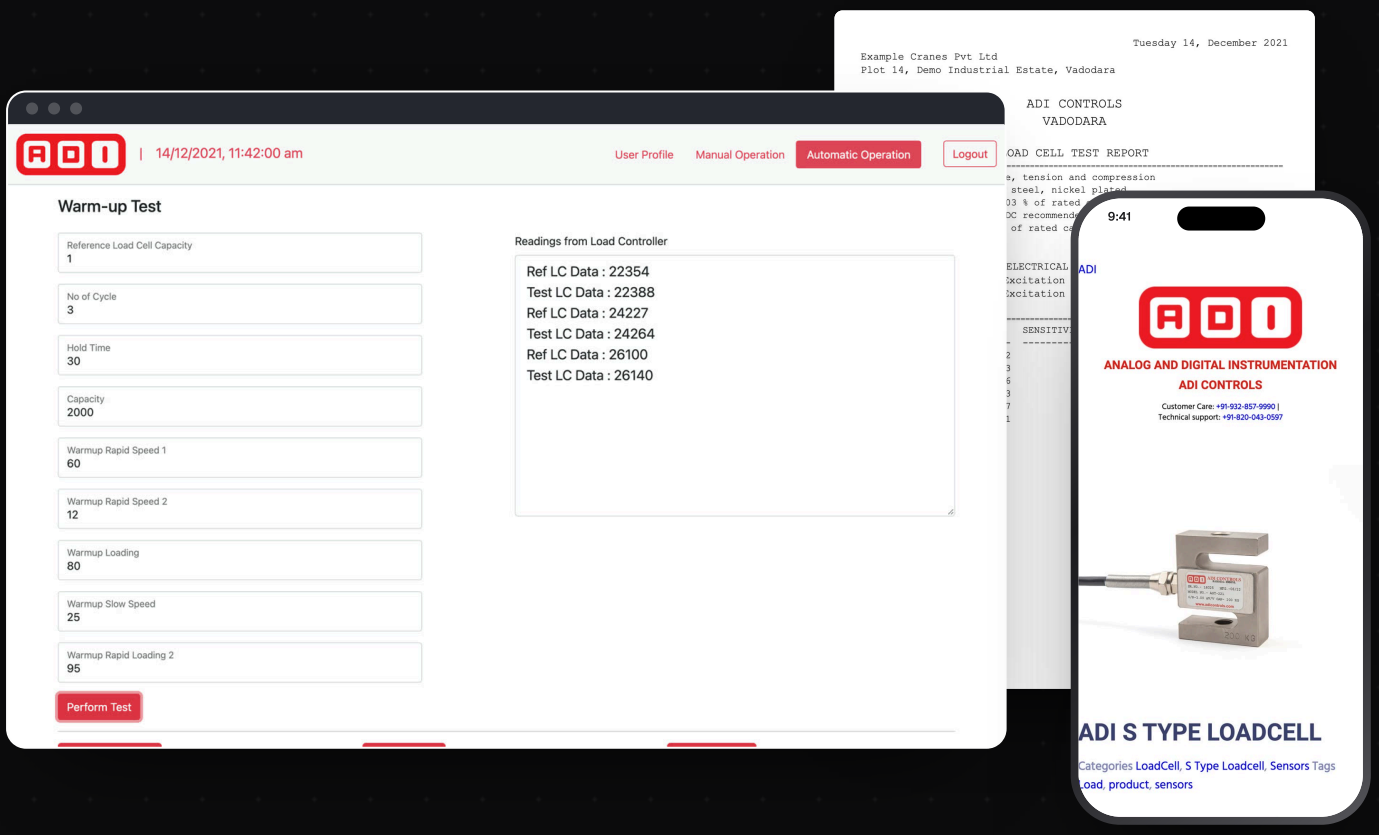
P26

CASE STUDY · ADI CONTROLS

SHOP-FLOOR SOFTWARE AND PRODUCT WEBSITES FOR MANUFACTURERS

Load cell testing, run by software.

For ADI Controls, a load cell maker in Vadodara, we built a product website (2021) and the desktop software that runs its load cell test rig (2021–22): four automatic tests, sensitivity against a reference cell, every result kept by serial number, and the client's test report and serial stickers printed at dispatch.



TEST SOFTWARE AND REPORT: SAMPLE DATA, FICTITIOUS · PHONE: ADICONTROLS.COM, 2021

WHY

Every cell tested the same way. Every result on record.

A load cell maker tests every cell before it ships, and its buyers choose cells from their specs. Both jobs ran on paper and phone calls.

BEFORE

Paper, phone and retyping

- Catalogues sent by phone and email
- Data sheets sent one at a time
- The rig set by hand for each test
- Readings written into a register
- Sensitivity worked out on paper
- Results retyped into the client's report

WITH THE SOFTWARE

One website. One test system.

- Every product online, with its PDF data sheet
- The rig runs warm-up, linearity, span and creep
- Test settings locked by the admin
- Sensitivity worked out against a reference cell
- Each result saved by serial number, tester and date
- Report and serial stickers printed at dispatch

This guide shows the work we did for **ADI Controls** (Analog and Digital Instrumentation), which has made load cells, load controllers and sensors in Vadodara since 1979. Test software screens come from a local run of the 2021–22 app with **fictitious data** (Demo Tester 1, Example Cranes Pvt Ltd). Website pages are from the Wayback Machine's archive of adicontrols.com, 2021.

WHAT WE BUILT

Website, rig, records, dispatch.

01

Product website

- Instruments and Sensors menus
- A page per product with its specs
- A PDF data sheet on the product page
- Industries served, contact numbers on every page
- WordPress, so ADI's team adds products

02

Software that runs the rig

- PLC over FINS on Ethernet
- Servo up, down and home, motor speed
- Test and reference load controllers over RS485 Modbus
- Warm-up, linearity, span and creep tests
- Manual mode for set-up

03

Results on record

- Sensitivity in mV/V against a reference cell
- Each reading saved by serial number
- The tester and the date on every test
- Test counts per tester

04

Dispatch

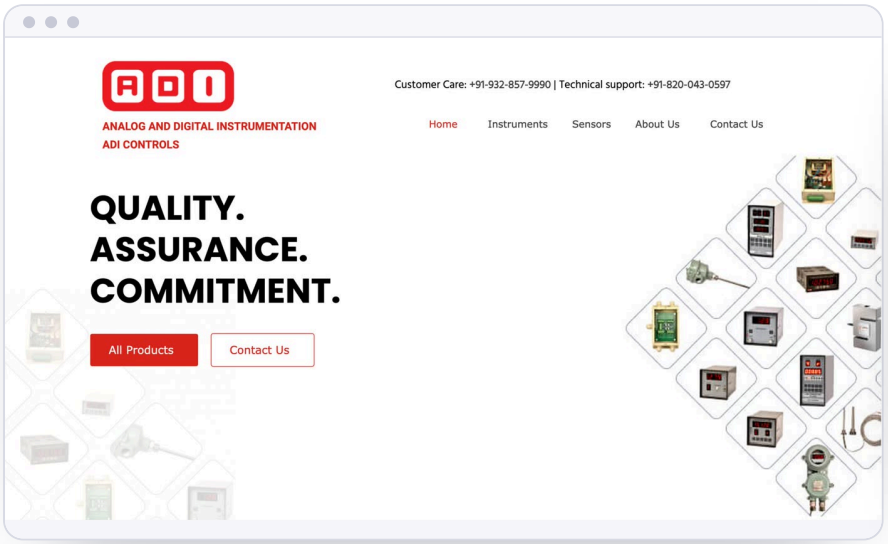
- Scan serial numbers, pick the client
- Load Cell Test Report for the client
- Serial stickers, two per row
- A dispatch log by client and date

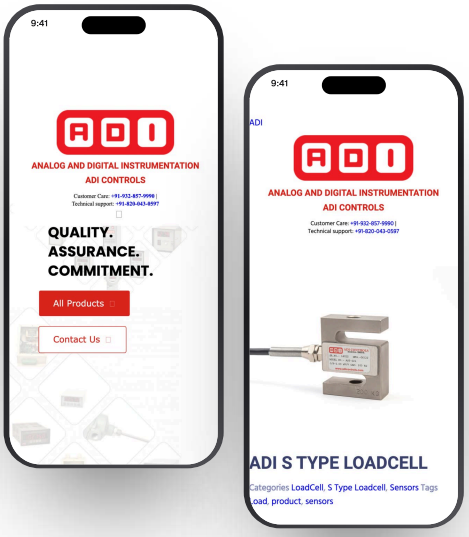
Ask for a quote

Software for a test rig, a machine or a shop-floor process, and product websites, built around your equipment and your products.

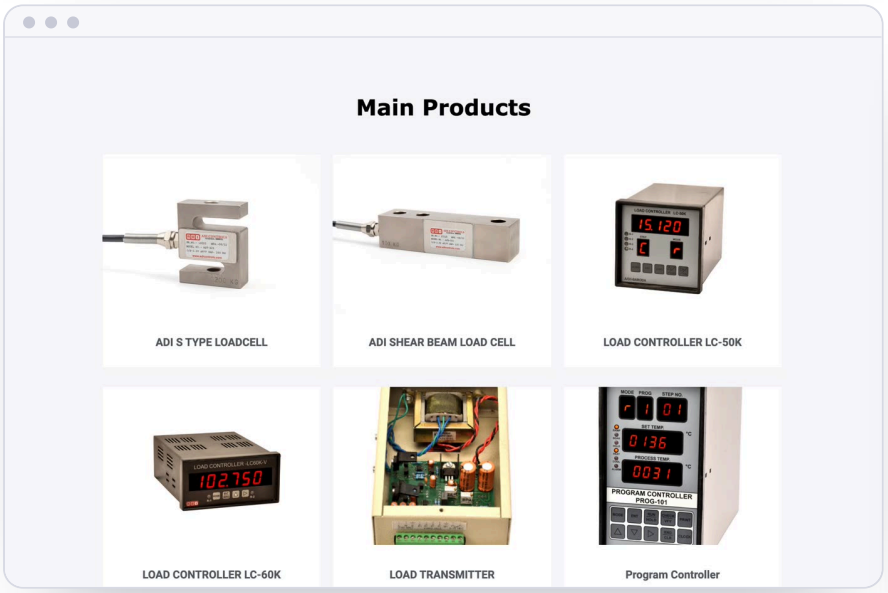
Every product, with its data sheet.

Engineers at crane makers, weighing-scale makers, process plants and calibration labs choose a load cell from its specs. The 2021 site put ADI's range online by category and by industry, with the specs and a PDF data sheet on each product page.





HOME, FIRST SCREEN



MAIN PRODUCTS



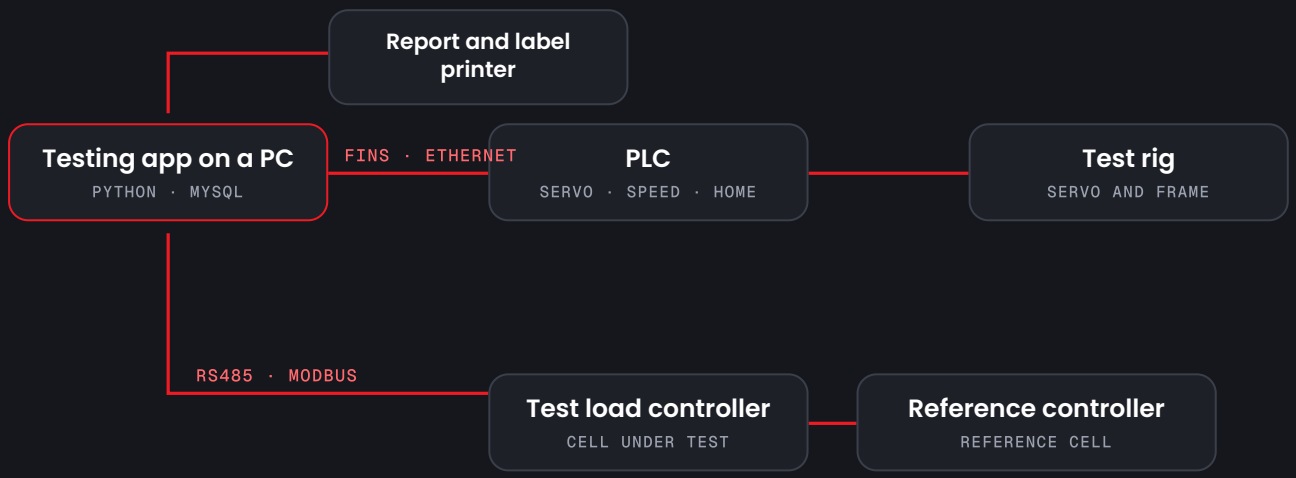
A PRODUCT'S PDF DATA SHEET (ADI'S OWN), LINKED ON ITS PAGE

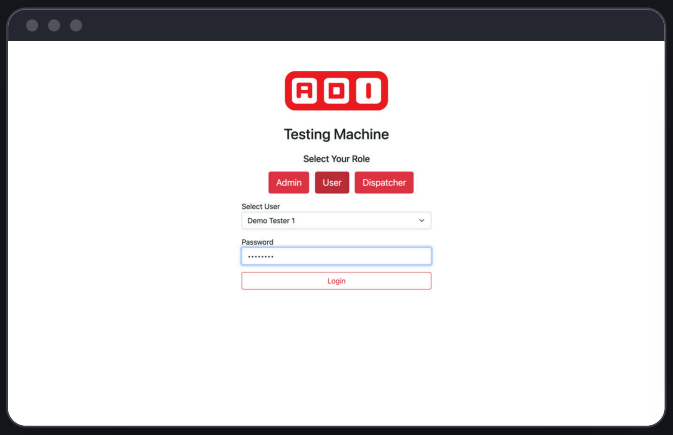
- Instruments and Sensors menus
- Customer-care and tech-support numbers
- Industries we serve: cranes to calibration labs
- WordPress and Elementor, run by ADI

ADICONTROLS.COM, 2021 · PAGES FROM THE WAYBACK MACHINE (THE CURRENT ADICONTROLS.COM IS NOT OUR WORK)

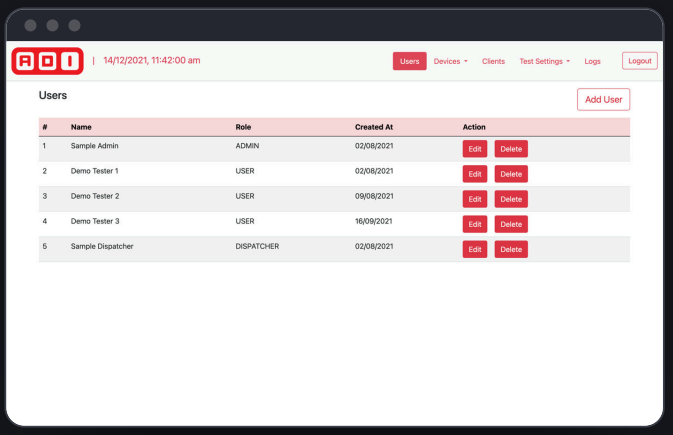
Software that runs the rig.

A Windows desktop app in Python talks to the rig's PLC over Ethernet and to the test and reference load controllers over RS485. Three roles sign in: the admin sets it up, the tester runs tests, the dispatcher ships.

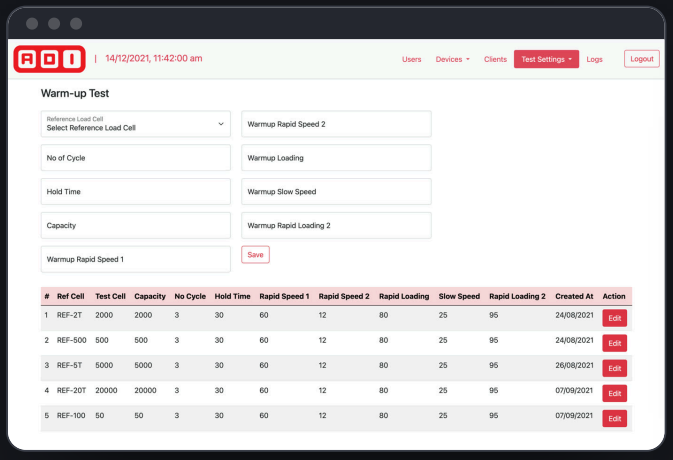




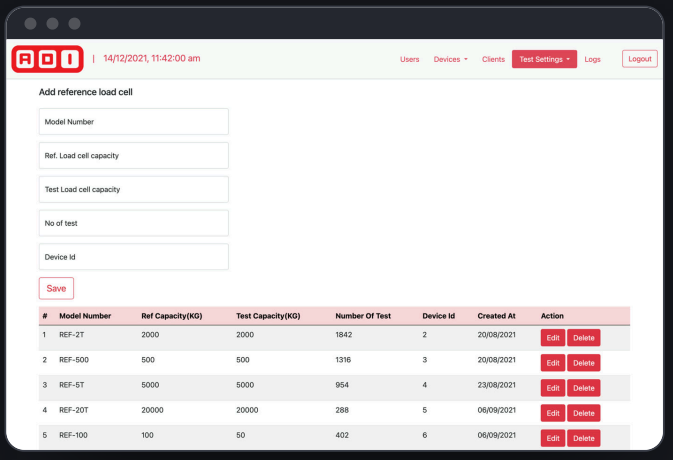
SIGN IN BY ROLE



ADMIN: USERS AND ROLES



WARM-UP SETTINGS: CYCLES, HOLDS, SPEEDS, LOADING

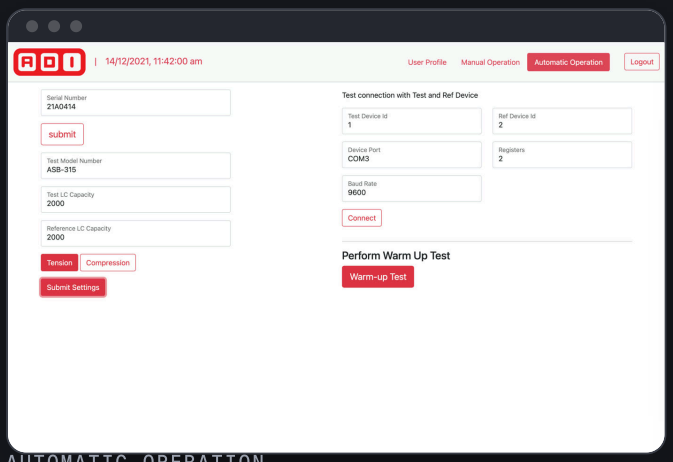


REFERENCE LOAD CELLS

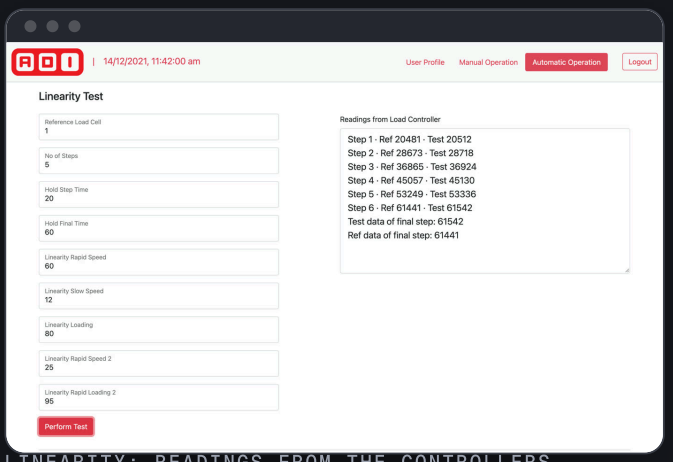
SCREENS: A LOCAL RUN OF THE 2021-22 APP · SAMPLE DATA, FICTITIOUS

Enter a serial number.
The rig does the rest.

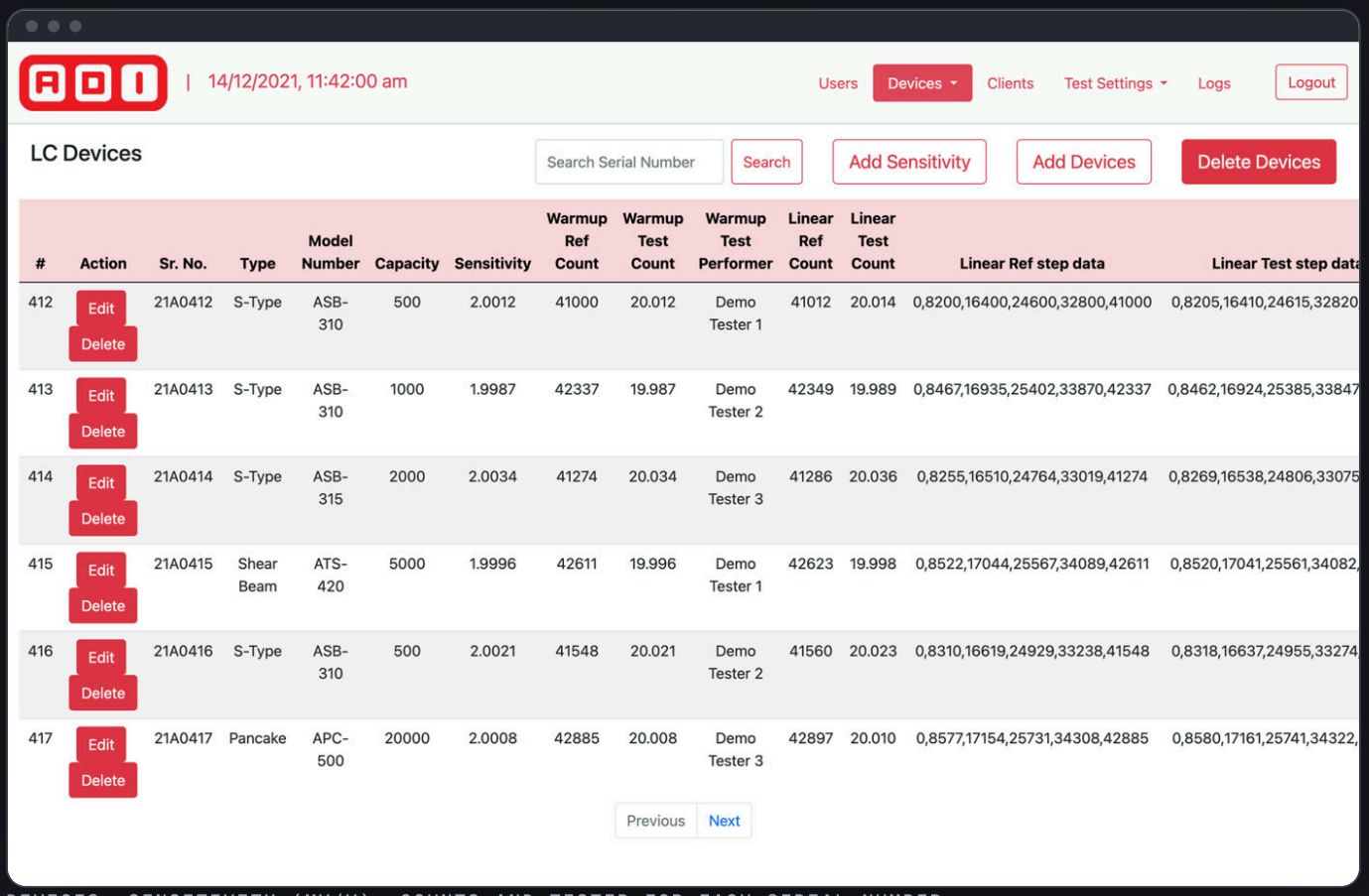
The tester enters the cell's serial number, connects the controllers and starts the warm-up. Linearity, span and creep follow, each with the settings the admin locked. Sensitivity is worked out against the reference cell and saved with the readings.



AUTOMATIC OPERATION



LINEARITY: READINGS FROM THE CONTROLLERS



DEVICES: SENSITIVITY (MV/V), COUNTS AND TESTER FOR EACH SERIAL NUMBER

SAMPLE DATA, FICTITIOUS: SERIAL NUMBERS, READINGS AND NAMES

Report and stickers in one step.

The dispatcher scans the serial numbers and picks the client. The software prints the Load Cell Test Report, with the model's data, the wire colours and each cell's sensitivity, and the serial stickers, two per row.

Tuesday 14, December 2021

Example Cranes Pvt Ltd
Plot 14, Demo Industrial Estate, Vadodara

ADI CONTROLS
VADODARA

LOAD CELL TEST REPORT

Type	:	S-Type, tension and compression
Material	:	Alloy steel, nickel plated
Combined error	:	< ±0.03 % of rated output
Excitation	:	10 V DC recommended, 15 V DC max.
Safe overload	:	150 % of rated capacity
Protection	:	IP67

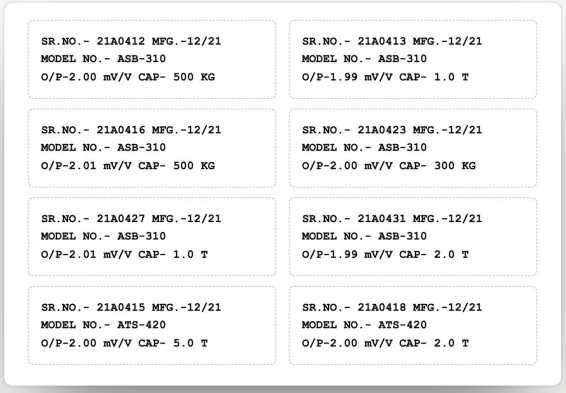
ELECTRICAL TERMINATION

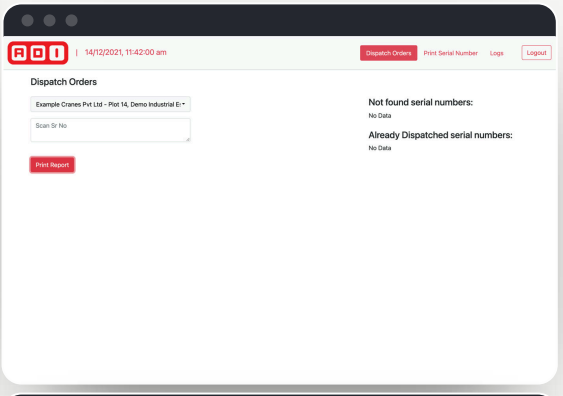
RED	:	+ Excitation	GREEN	:	+ Output
BLACK	:	- Excitation	WHITE	:	- Output

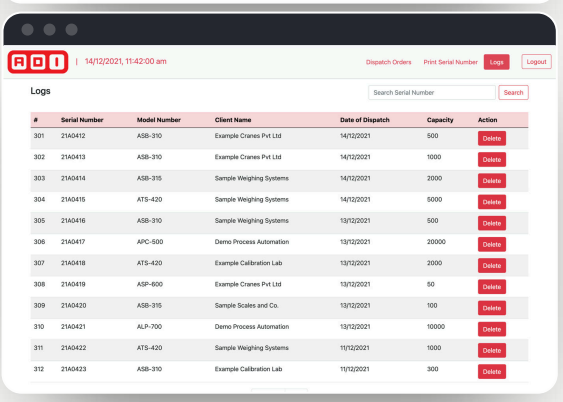
MODEL	CAPACITY	SR.NO.	SENSITIVITY (mV/V)	INPUT	OUTPUT
ASB-310	500 KG	21A0412	2.00	405.2	350.4
ASB-310	1.0 T	21A0413	1.99	404.8	351.0
ASB-310	500 KG	21A0416	2.01	405.2	350.4
ASB-310	300 KG	21A0423	2.00	405.5	350.2
ASB-310	1.0 T	21A0427	2.01	404.9	350.7
ASB-310	2.0 T	21A0431	1.99	405.8	350.1

LOAD CELL TEST REPORT, REBUILT FROM THE APP'S PRINT LAYOUT · SAMPLE, FICTITIOUS CLIENT

- Sticker: serial no., month of make, model, mV/V, capacity
- Each dispatch logged by client and date







DISPATCH ORDERS AND THE DISPATCH LOG

ADI Controls (Analog and Digital Instrumentation) has made load cells, load controllers, transmitters and temperature sensors in Vadodara since 1979. P26 built its product website in 2021 and its load cell test software in 2021–22.

60%
less time to test a load cell and record its results
CLIENT-REPORTED, NOV 2026

0
handwritten test registers: every result saved by serial number
CLIENT-REPORTED, NOV 2026

3×
more product enquiries in the first year online
CLIENT-REPORTED, NOV 2026

50%
fewer calls asking for catalogues and data sheets
CLIENT-REPORTED, NOV 2026

4
automatic tests from one screen: warm-up, linearity, span, creep
FROM THE SOFTWARE

1 step
to print a client's test report and serial stickers at dispatch
FROM THE SOFTWARE

> "I had the pleasure of partnering with P26 Consultancy for website development and engineering a powerful software solution. The outcome of their efforts was a top-performing website and software testing tool that exceeded our expectations. I highly recommend P26 Consultancy for its exceptional services."



Manish Vachhani
MANAGING DIRECTOR, ADI CONTROLS

- Website: WordPress, Elementor, Contact Form 7
- PLC over Omron FINS on Ethernet
- Website live 2021 to 2024
- Software: Python, pywebview (Qt), SQLAlchemy, MySQL
- Load controllers over Modbus RTU (RS485)
- Software built Aug 2021 to May 2022

CLIENT-REPORTED FIGURES: ADI CONTROLS, NOV 2026. THE CURRENT ADICONTROLS.COM IS NOT OUR WORK AND IS NOT LINKED.

HOW WE WORK

From your rig to software on the floor.

01

FIRST CALL

Walk the process

What gets tested or made, by whom, and what has to be on record. We read your machine's manuals: the PLC, the controllers and their protocols.

02

PLAN

Screens and documents

The screens for each role, the settings to lock, and the reports, labels and logs the software must print, agreed before we build.

03

BUILD

Build on your hardware

The app talks to your PLC and controllers on a test bench first, then on the line. Each test runs end to end with sample cells.

04

HAND OVER

Train and go live

Install on your shop-floor PC, set up users, walk each role through it, and fix what the first week turns up.

WHAT WE NEED FROM YOU

- Access to the rig or machine, and its PLC
- Your test procedure, step by step
- Models, capacities and specs
- For a website: products, photos, data sheets
- One person who can say yes
- Controller manuals and register maps
- A sample report or label you use today
- A PC for the shop floor
- A domain in your name
- Feedback within a day at each step

P26

SHOP-FLOOR SOFTWARE AND PRODUCT WEBSITES FOR MANUFACTURERS

Book a free 30-minute call.

Ask for a quote

Software that runs a test rig or a machine, keeps every result on record and prints your reports and labels; product websites with a page and a data sheet for every product. Tell us about your equipment and your products, and we will quote for the build.

abhishek@p26.co

+91 74057 38627
CALL OR WHATSAPP

cal.com/abhishekj/p26-meeting
BOOK A CALL

Vadodara, Gujarat, India

Scan for the ADI case on p26.co

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