

# ProCal Direct

The Complete CMMS.

Calibration

Maintenance

Qualification

Commissioning

Validation

Quality



A photograph of an industrial facility, likely a refinery or chemical plant, at dusk. The scene is illuminated by warm lights from the facility, contrasting with the cool blue tones of the twilight sky. In the foreground, there are several large white storage tanks and a complex network of pipes and structures. The background shows more industrial buildings and towers, some with lights glowing. The overall atmosphere is one of a busy, well-lit industrial site during the 'blue hour'.

# Background

- ProCalV5 has been around since the 1990s and is used by thousands of clients globally across many industries. ProCalV5 Direct is a pre-validated GAMP5 Cloud version of the ProCalV5 CMMS that supports BOTH Calibration and Maintenance jobs for excellent Asset Management operations.
- ProCalV5 Direct is designed for the highest calibration management requirements especially those in highly regulated industries such as Pharmaceuticals, Life Sciences, Medical Devices and Food & Beverage, ProCalV5 Direct is also used in Oil & Gas, Specialty Gases, Chemicals, Public Utilities, Power Plants and many other segments.
- ProCalV5 Direct covers all types of plant and laboratory assets, processes and automation that supports sustainable business operations.
- ProCalV5 Direct offers comprehensive control features support the compliant record management dictated for cGxP operations per USFDA 21 CFR Part 11, EU GMP Annex 11, ISO 9000-2001, QS 9000, ISO 13485, ISO 17025, ANSI 254 and others.
- ProCalV5 Direct facilitates real-time communication between the Engineering / Maintenance Department and the Quality Department to actively address compliance related matters. Example: Late events, Failed events, Non-Compliant events etc.

# Calibration & Maintenance Management

## Benefits of ProCalV5 Direct for maximized asset performance

- 1 Software to Manage Assets, Calibration and Maintenance Jobs.
- Better calibration and maintenance management using data analytics;
- Manage third party vendors according to your organization's quality requirements for in-house jobs;
- Avoid work delays by having the option for remote work or offline mode operations (Example: Covid-19 Pandemic Work Management);
- ProCal Direct supports complex engineering math functions with Test Type Packages (TTPs) to produce more reliable calibration data results that can be trusted by Department Heads by way of automated calculations (Eliminate spreadsheets, accidental human documentation and calculation errors) and;
- Lower overall maintenance costs.



# Complete Asset Management

Easy and quick setup to manage calibration and maintenance schedules.

Detailed data capture for maintenance and calibration jobs.

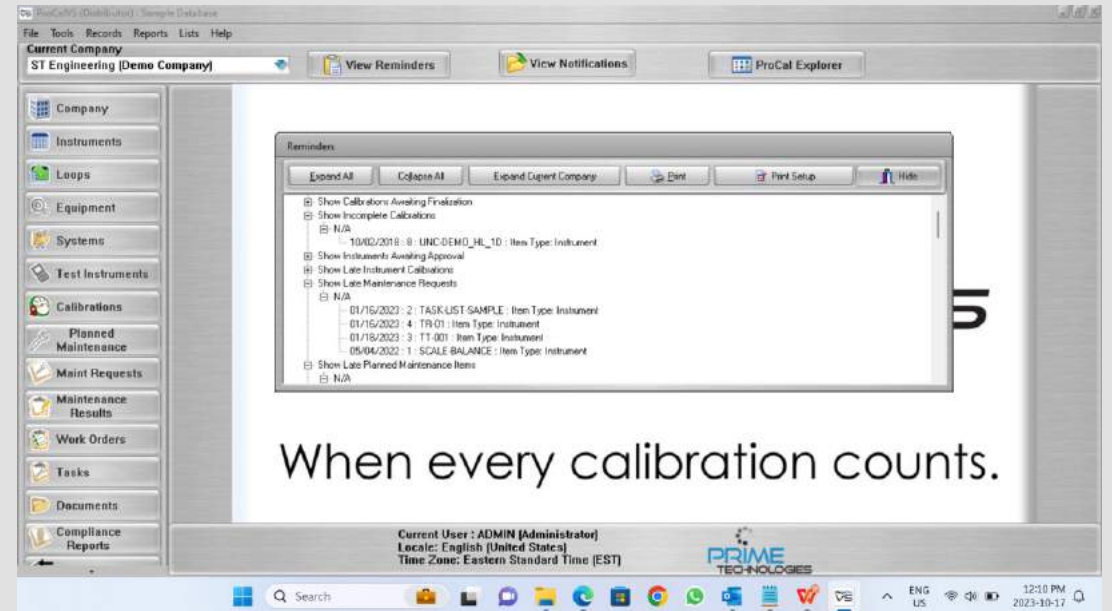
Get Reminders for upcoming due maintenance and calibrations.

Get warnings for Late, Failed and Non-compliant events.

Easily link SOPs, Work Instructions, Manuals etc. to assets and access the documents during calibration and maintenance jobs.

Link Parts to Calibration and Maintenance jobs.

Generate analytic reports. Over 70+ reports already available in the system and more...



**Never miss or forget any calibration or maintenance task.**



# Work Orders

Create work orders for:

- Planned Maintenance
- Requested Maintenance
- Calibrations

Assign tasks for:

- Technicians or
- Teams

The screenshot displays the ProCalV5 software interface. The main window is titled "Work Order" and shows a form for creating or editing a work order. The "Current Company" is "ST Engineering (Demo Company)". The "Work Order ID" is 1, and the "Work Order Number" is 1. The description is "Work in Site A".

Below the form, there are two tables. The first table, "Work Items Not Currently Assigned to a Work Order", lists various tasks with columns for Type, Item Type, Item ID, Maintenance T..., Due Date, % of Target, Responsible Te..., Status, and Location. The second table, "Tasks Assigned To This Work Order", lists tasks assigned to the current work order with similar columns.

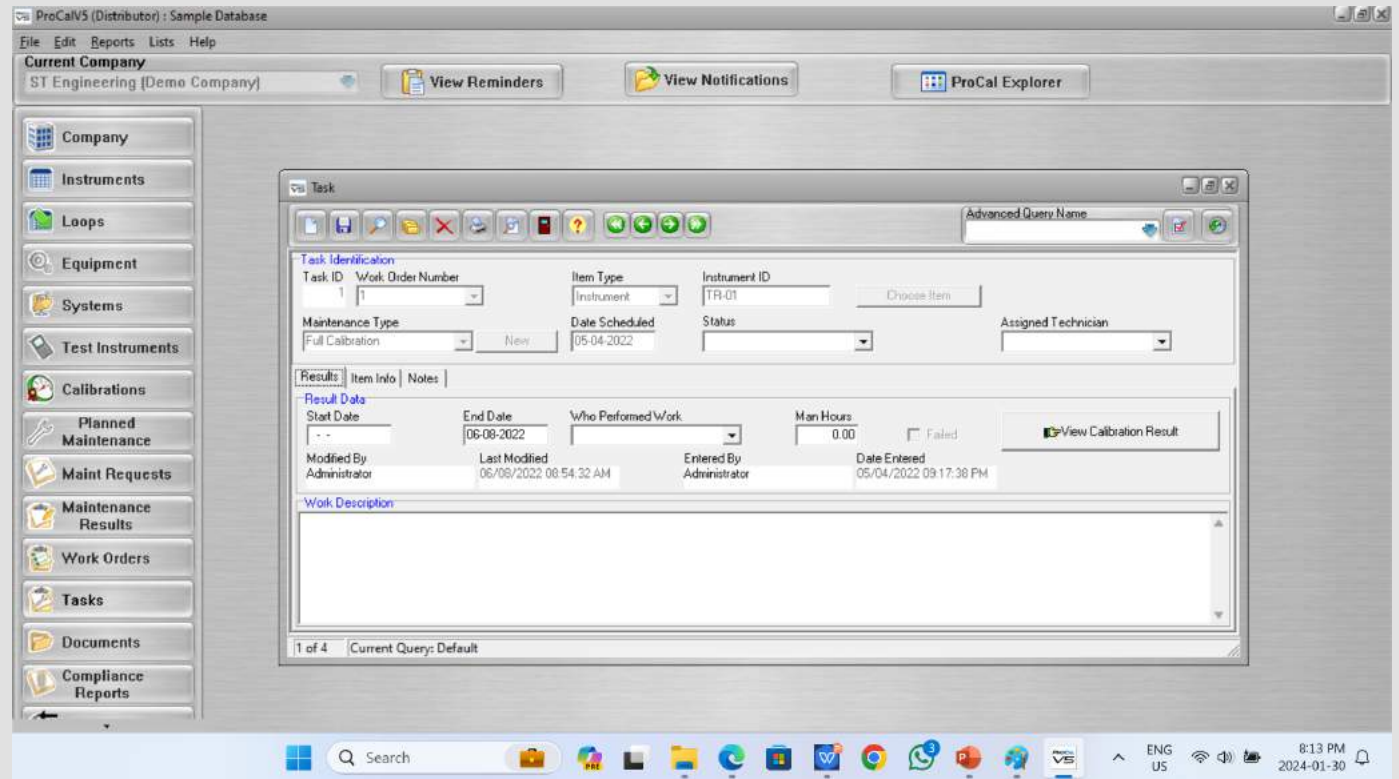
Type	Item Type	Item ID	Maintenance T...	Due Date	% of Target	Responsible Te...	Status	Location	B
Planned Maintenance	Instrument	UNC-DEMO_HL_1D	Scheduled	10/31/2019	N/A	Mike McClan	Active		
Requested Maintenance	Instrument	SCALE-BALANCE	Maintenance (No Calibration)	05/04/2022	N/A		Active		
Requested Maintenance	Instrument	TASK-LIST-SAMPLE	Ad Hoc	01/16/2023	N/A				
Requested Maintenance	Instrument	TT-001	Ad Hoc	01/18/2023	N/A		Active		
Requested Maintenance	Instrument	TR-01	Calibration	01/16/2023	N/A		Active		
Requested Maintenance Calibration	Instrument	TT-001	Full Calibration	08/31/2019	N/A		Active		

Type	Item Type	Item ID	Maintenance T...	Due Date	% of Target	Responsible Te...	Status	Location	Bulk
Calibration	Instrument	TR-01	Full Calibration	05/04/2022					
Calibration	Instrument	UNC-DEMO_HL_1D	Full Calibration	05/04/2022					

# Tasks

- Create tasks for individuals or teams.
- Create notes for individual tasks.
- Link tasks to Single or Multiple Work Orders.



# Planned Maintenance

The screenshot displays the ProCalV5 software interface for configuring a planned maintenance task. The window title is "ProCalV5 (Distributor) : Sample Database". The current company is "ST Engineering (Demo Company)".

**Planned Maintenance Configuration:**

- PM ID:** 1
- Item Type:** Instrument
- Instrument ID:** UNC-DEMO\_HL\_1D
- Description:** Temperature and Humidity Data Logger (DO NOT DELET)
- Maintenance Type:** Scheduled
- Description:** Scheduled battery replacement and contact clean
- Use Default Calibration Specs

**Employee and Vendor Information:**

- Responsible Employee:** Mike McClain
- Responsible Vendor:** (Empty)

**Frequency and Dates:**

- Frequency:** 1 Month
- First Date:** 04-08-2018
- Last Date:** 09-26-2019
- Next Date:** 10-31-2019

**Alerts and Scheduling:**

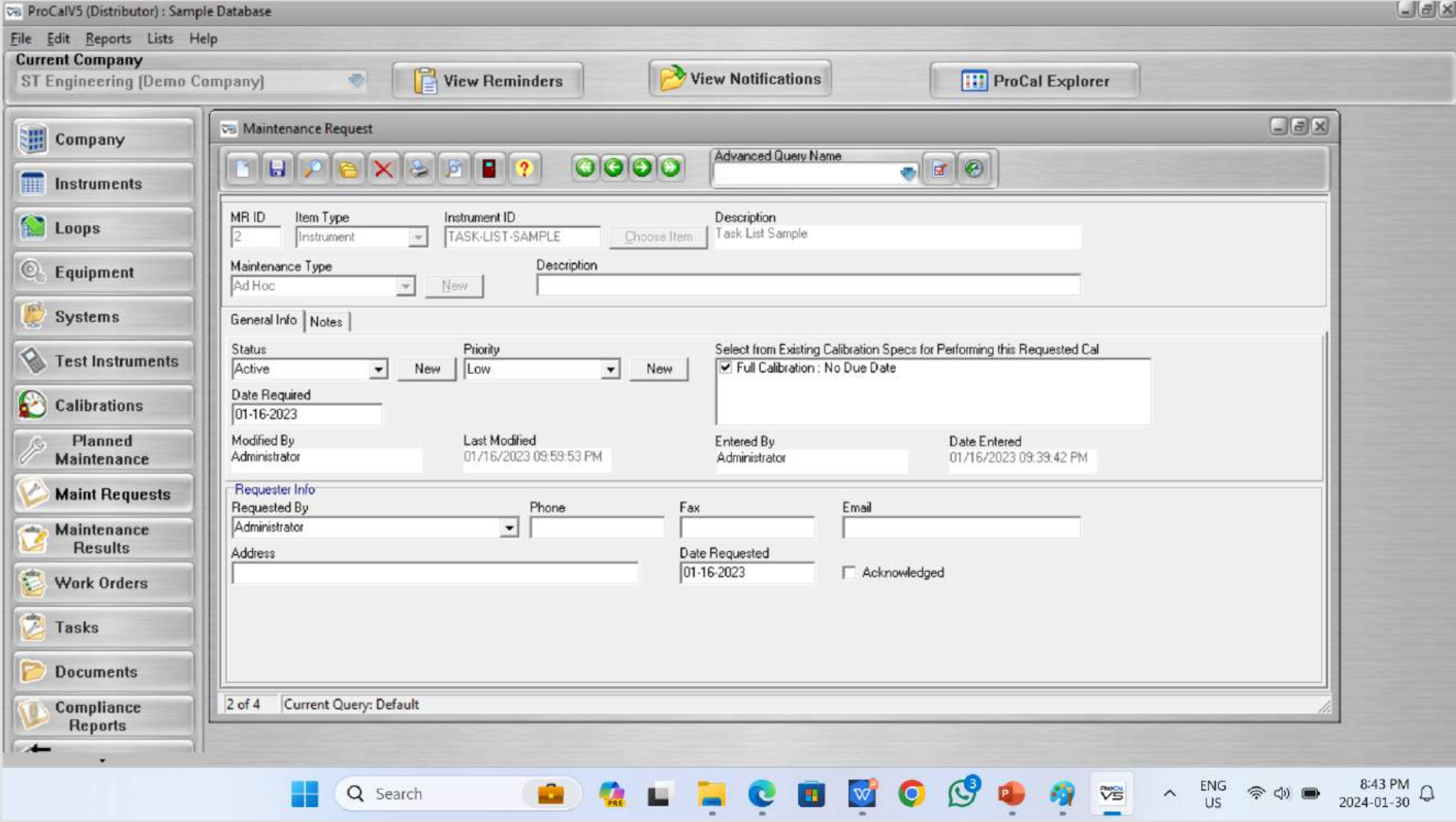
- Keep On Schedule
- Separate As Found/As Left Readings
- Failure Alerts Due:** 0 Days After Event
- Found Out of Cal Alerts Due:** 0 Days After Event

**Entered/Modified Information:**

- Entered By:** Ken Wachs
- Date Entered:** 08/09/2018 10:58:43 PM
- Modified By:** Ken Wachs
- Last Modified:** 09/26/2019 09:58:08 AM

The interface includes a sidebar with navigation options: Company, Instruments, Loops, Equipment, Systems, Test Instruments, Calibrations, **Planned Maintenance**, Maint Requests, Maintenance Results, Work Orders, Tasks, Documents, and Compliance Reports. The Windows taskbar at the bottom shows the date as 2024-01-30 and the time as 8:16 PM.

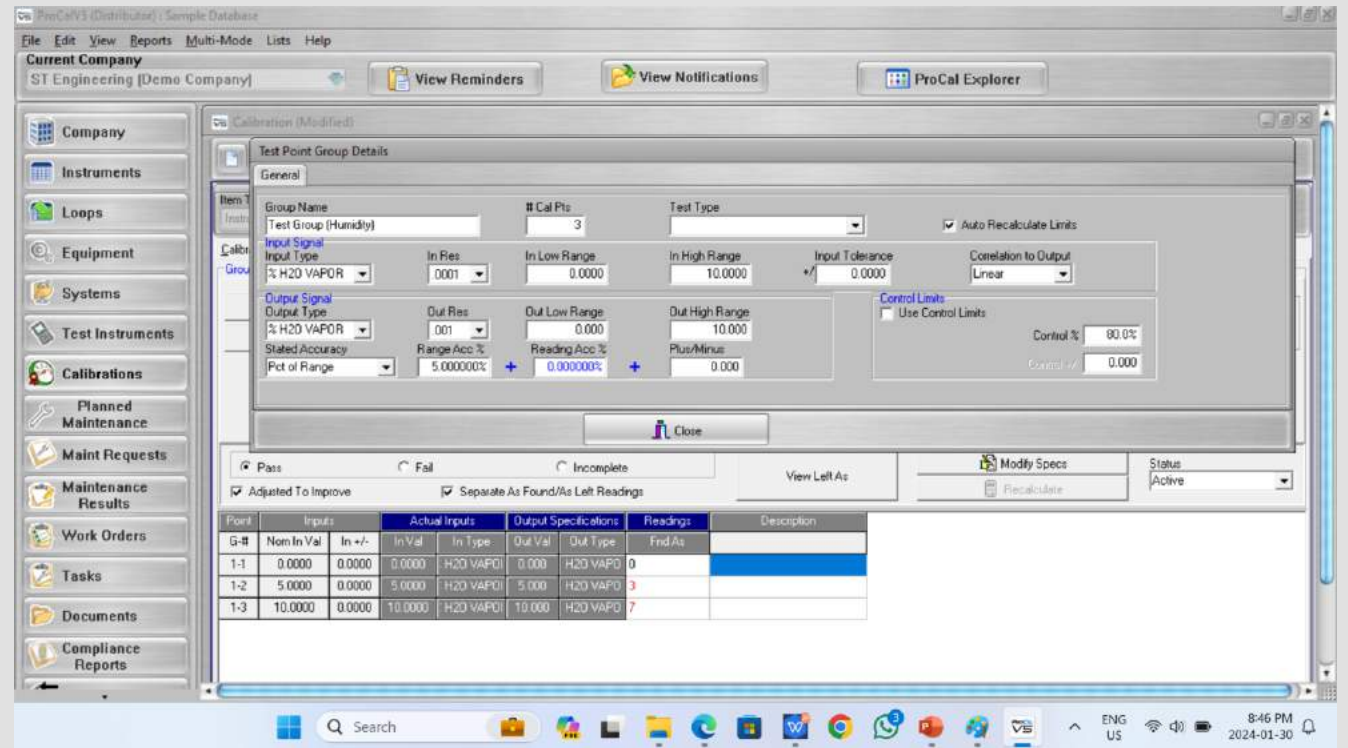
# Requested / On-Demand Maintenance





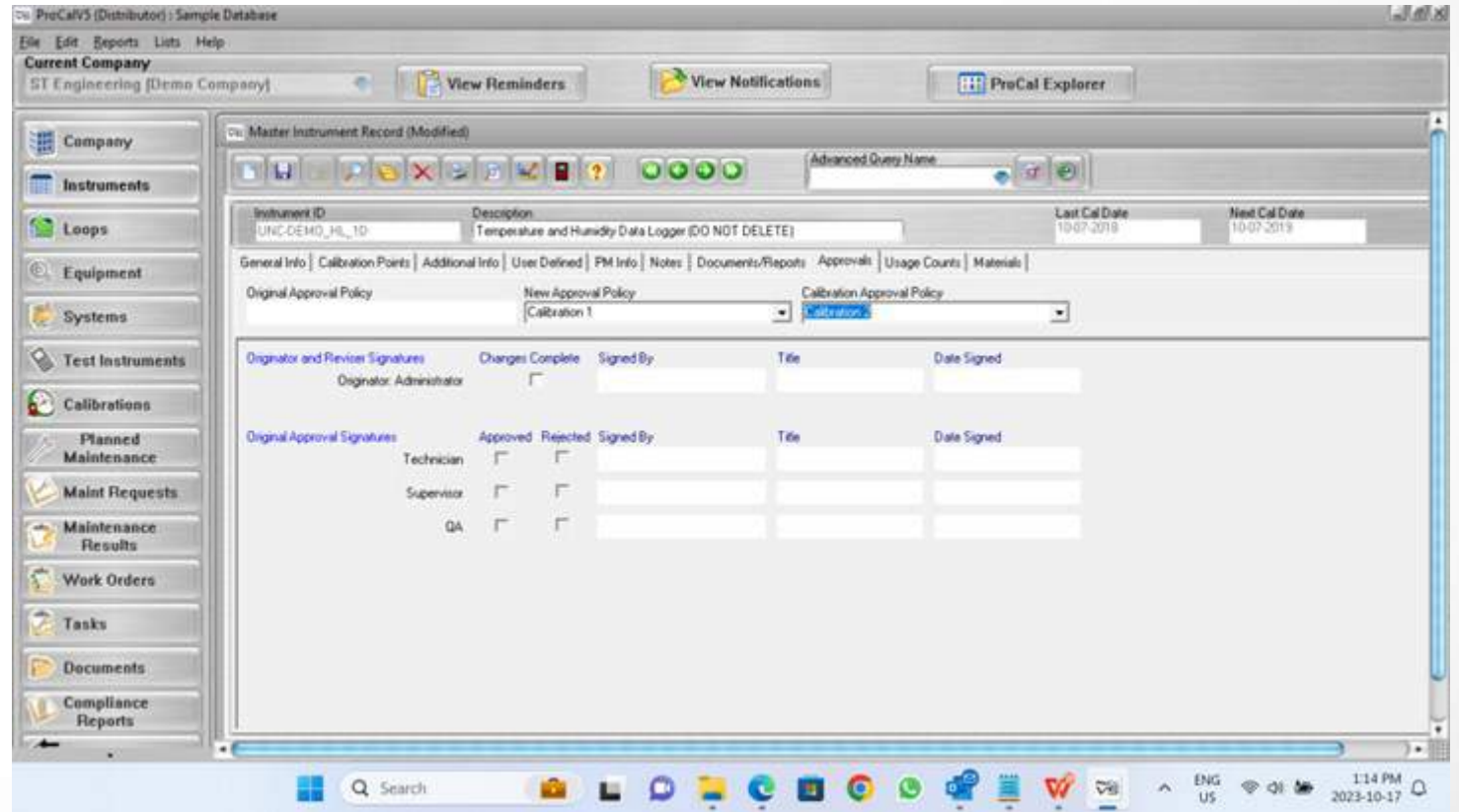
# Calibration Management

- Create unlimited calibration test templates for instruments, loops and systems.
- Automate calibration calculations including uncertainty budget.
- Manage different input and output signal requirements.
- Easily create barcodes and calibration tags.
- Ensure quality compliance with ISO17025, ISO9001:2015, USFDA, EU GMP Annex 11. ISO 13485 etc. standards.



# Workflow Management

- Create workflows for calibration jobs and assign technicians to each job for complete accountability and quality compliance.
- Each stage is digitally signed by each person in the workflow chain.



# Documenting Process Calibrators

## Speed up the calibration process with:

- User-defined test standard settings can allow specific standards to only be used for certain instrument types
- Reverse traceability for tracking affected instruments, if needed
- Links master records to standard operating procedures and other documents
- Auto-recalculate high/low tolerances during actual field calibrations
- Upload logged data captured in the field
- Pre-structured associations for instruments to loops and/or equipment records are viewable in a hierarchical format which allows for multiple calibration test groups on a single instrument



# Document Management

- Manage SOPs
- Manage Work Instructions
- Manage Manuals and more....
- Assign documents to assets for maintenance and calibrations events to go paperless.

The screenshot displays the ProCalV5 software interface for document management. The window title is "ProCalV5 (Distributor) : Sample Database - [Document Records (Saved)]". The interface includes a menu bar (File, Edit, Lists, Help) and a toolbar with buttons for "View Reminders" and "View Notifications". A sidebar on the left contains navigation options: Test Instruments, Calibrations, Planned Maintenance, Maint Requests, Maintenance Results, Work Orders, Tasks, Documents, Compliance Reports, Upload/Download, Logged Data, PARTS, Bill Of Material, Requisitions, and Inventory Control. The main area shows a form for document details:

Document ID	Revision Number	Document Name
DOC-101	1.1	Work Instruction for Temperatures Transmitter

Below the header, there are tabs for "General Info", "Signatures", "Procedure", "Description", "Objective", "Scope", "Summary", and "Notes". The "General Info" tab is active, showing the following fields:

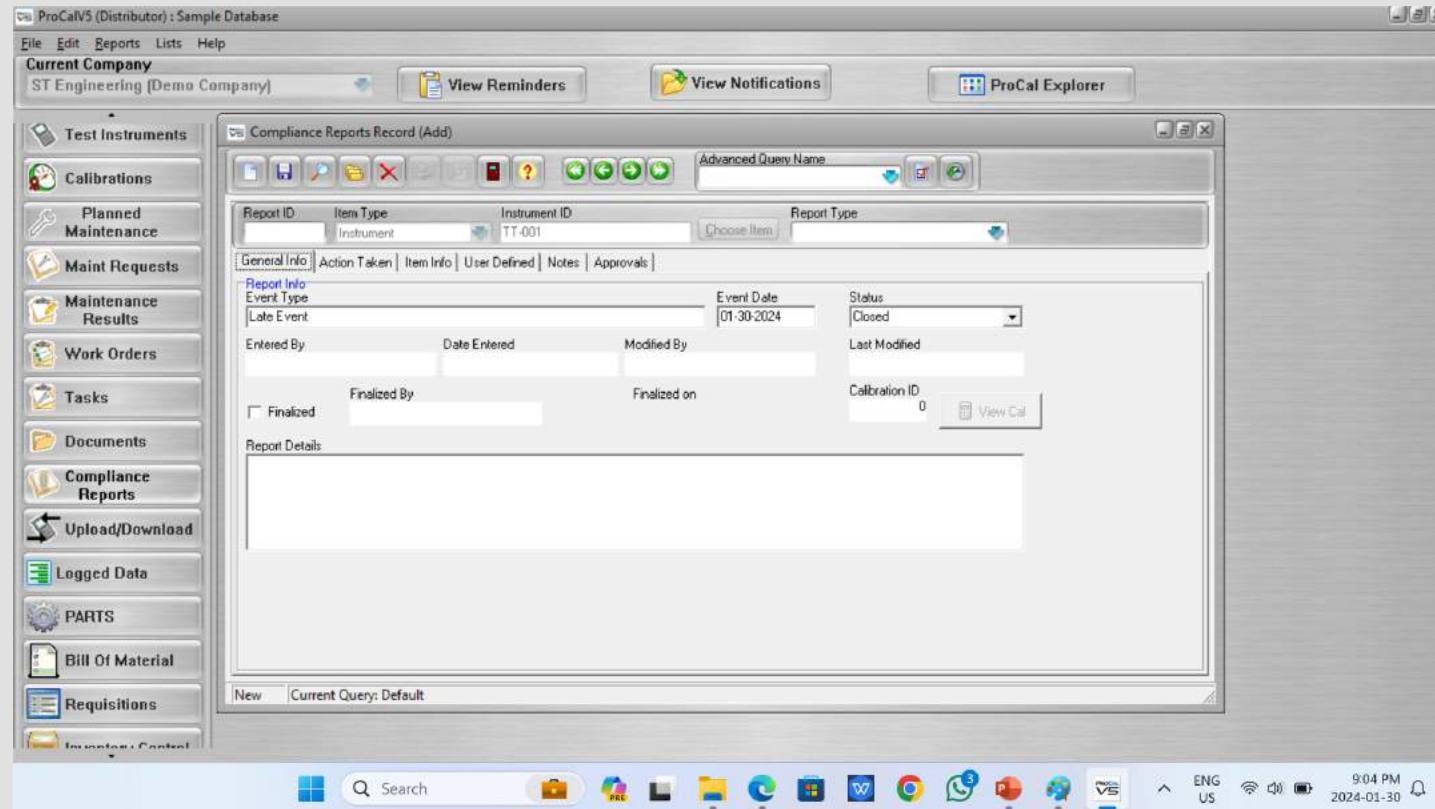
Document Type	Work Instruction	New	<input checked="" type="checkbox"/> Active	
Effective Date	01-30-2022	Expiration Date	01-30-2024	
Location	Level 2	New	Physical Location	Laboratory 1
Building	Building 2	New	SOP Type	Work Instruction

At the bottom of the form, there are fields for "Linked File" (C:\Users\skym\Downloads\Warranty-Tr...), "Review Frequency" (Annual), "Review Date" (01-30-2022), "Last Review Date" (01-30-2023), and "Next Review Date" (01-31-2024). The status bar at the bottom indicates "1 of 1" and "Current Query: Default". The Windows taskbar at the bottom shows the time as 9:00 PM on 2024-01-30.



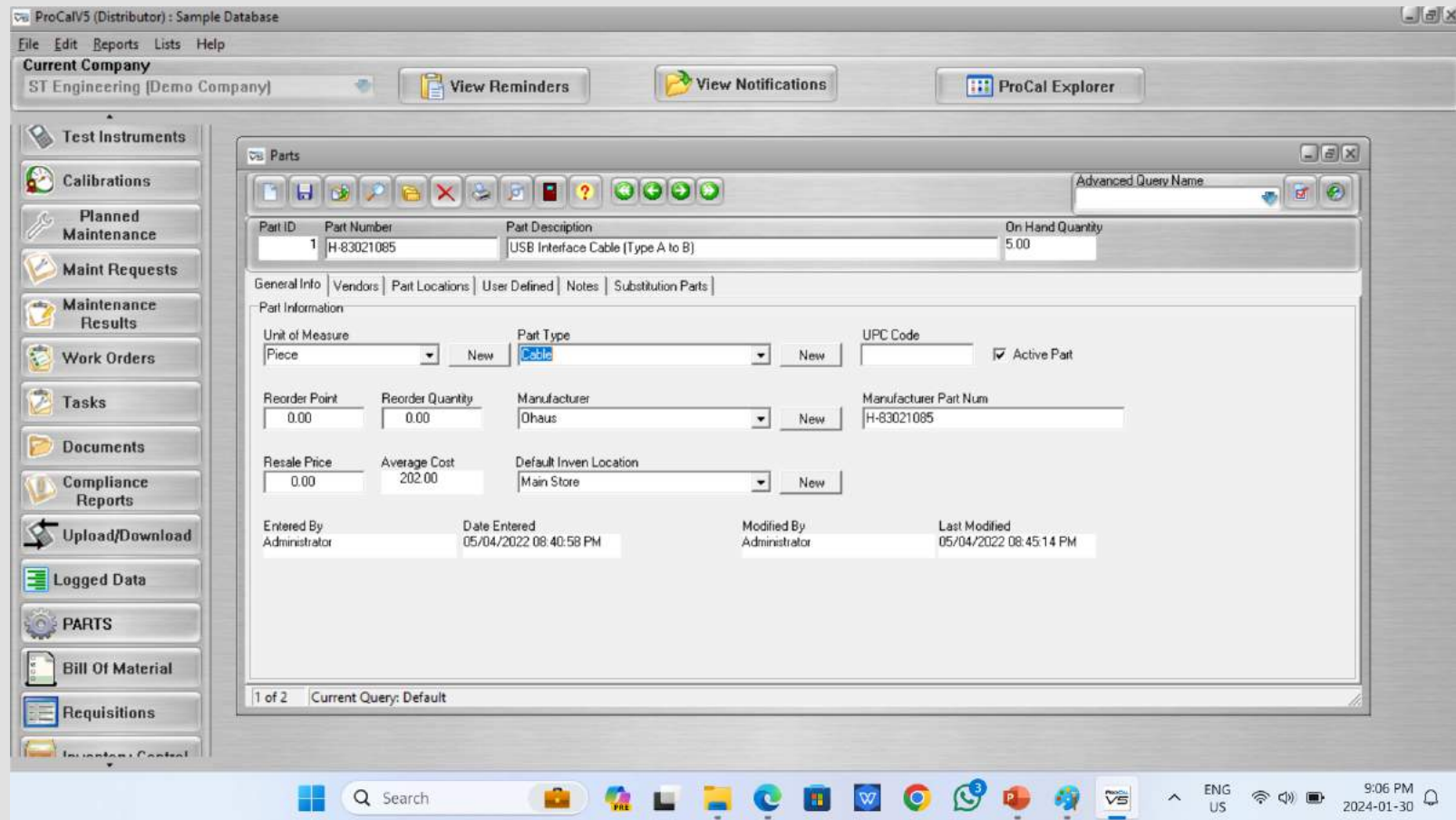
# Compliance Reporting

- Manage Non-compliance events easily with documented corrective actions in ProCal Direct to efficiently negotiate quality audits.



# Parts & Inventory

- Manage Parts in your inventory to ensure that maintenance and calibration events are effectively managed.



# Getting Started: Eliminating Manual Data Entry

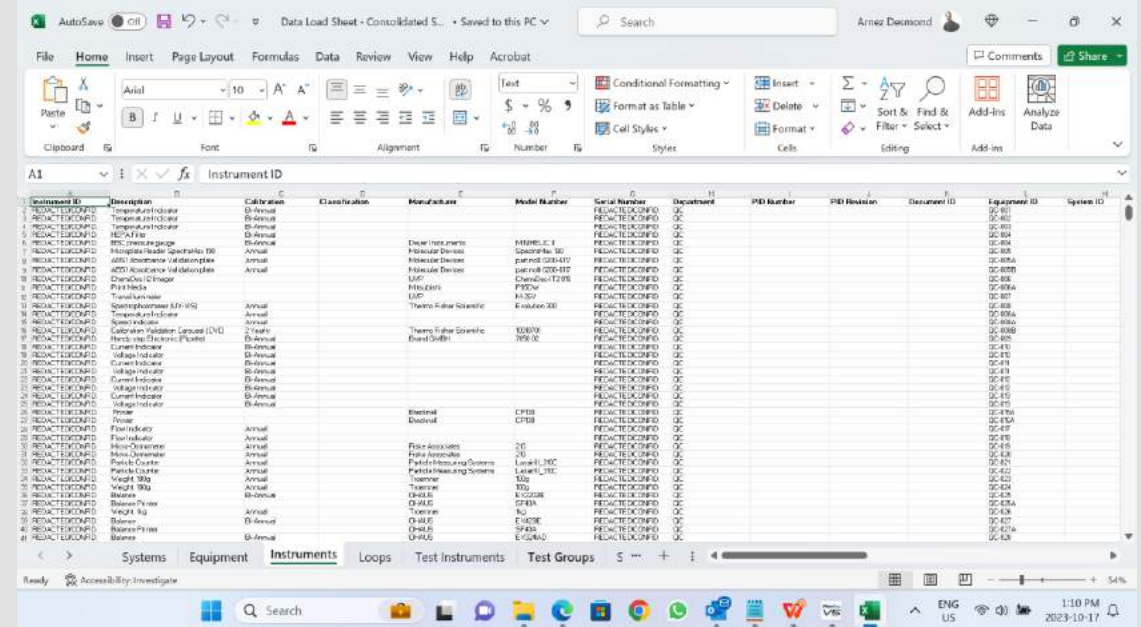
Let's get your asset data into ProCalV5 Direct...

The Process:

Pre-validated ProCalV5 Data Load Template (DLT) / Microsoft Excel Spreadsheet to organize your assets.

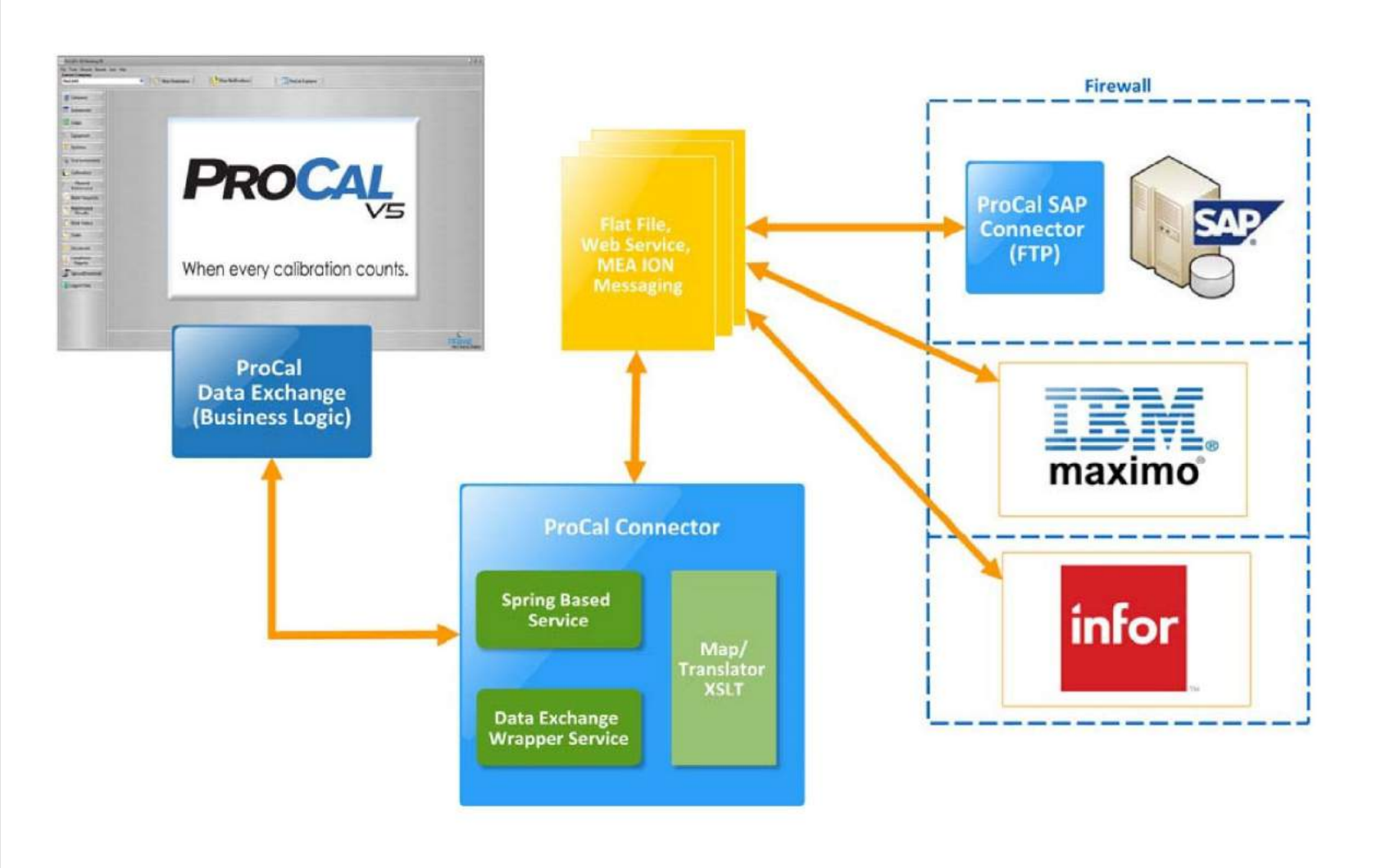
Easily copy & paste data from your spreadsheet into DLT

We use Data Load Utility to check the DLT for data errors before importing your zero-error data into ProCalV5 Direct.



Data Load Template

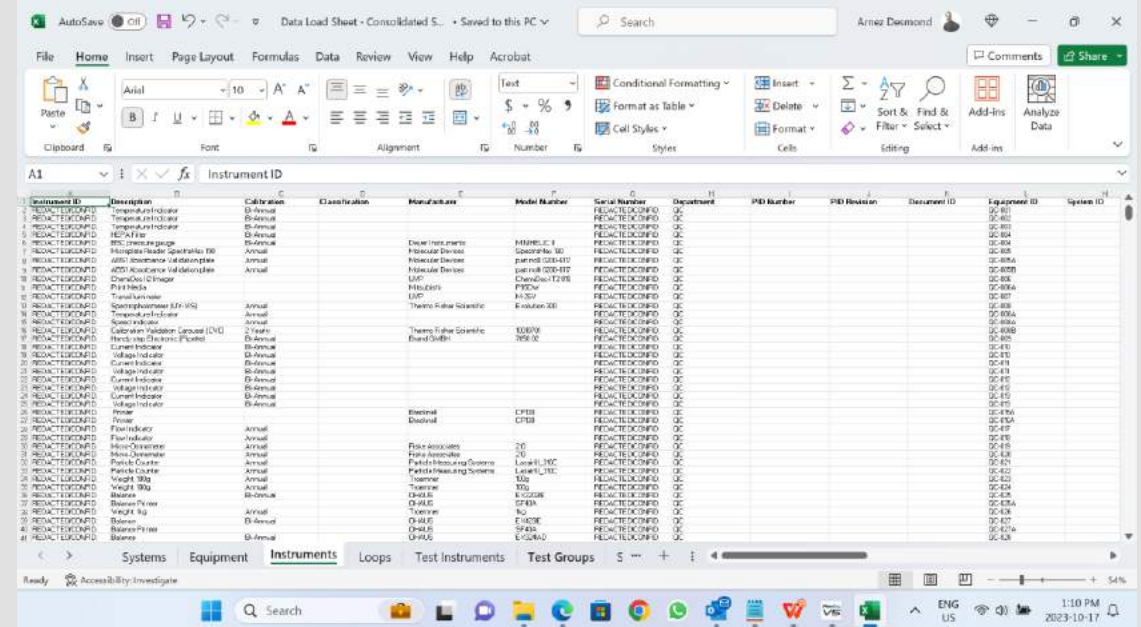
# Standalone or Integrate with ERP / PMS.





# 70+ Reports - View / Print & Export

- Calibration certificates
- A3 Instrument Interval Analysis
- Completed Work Order Reports
- Planned Maintenance Reports
- Maintenance Request Reports
- Calibration Reports
- Barcode labels
- Audit Trail
- Reverse Traceability
- Incomplete / Failed calibrations
- Compliance Reports & more...



Instrument ID	Description	Calibration	Classification	Manufacturer	Model Number	Serial Number	Department	PID Number	PID Revision	Document ID	Equipment ID	System ID
REACTECONP1	Temperature Indicator	B Annual					REACTECONP1				SC 80	
REACTECONP2	Temperature Indicator	B Annual					REACTECONP2				SC 80	
REACTECONP3	Temperature Indicator	B Annual					REACTECONP3				SC 80	
REACTECONP4	REC Filter	B Annual					REACTECONP4				SC 80	
REACTECONP5	REC Pressure Gauge	B Annual		Deuter Instruments	PHM85-C-1		REACTECONP5				SC 80A	
REACTECONP6	High-Resolution Spectralis 100	Annual		PerkinElmer	Spectrolyte 100		REACTECONP6				SC 80B	
REACTECONP7	AD80 Inertness Validation Kit	Annual		PerkinElmer	part no: 008-810		REACTECONP7				SC 80BA	
REACTECONP8	4220 HandCarve Validation Kit	Annual		Inductec Devices	part no: 008-810		REACTECONP8				SC 80BB	
REACTECONP9	Change Out Inspector	Annual		UNP	ChemScan T2 IPS		REACTECONP9				SC 80B	
REACTECONP10	Fluorimeter	B Annual		Fluorimeters	FM-20		REACTECONP10				SC 80BA	
REACTECONP11	Transmittance	UNP		UNP	HS-2V		REACTECONP11				SC 80T	
REACTECONP12	Scanning System K7-VIS	Annual		Thermo Fisher Scientific	Evaluation 200		REACTECONP12				SC 80B	
REACTECONP13	Temperature Indicator	Annual					REACTECONP13				SC 80BA	
REACTECONP14	Scatter Indicator	Annual					REACTECONP14				SC 80BA	
REACTECONP15	Calibration Validator Cartridge (LNG)	2 years		Thermo Fisher Scientific	800010		REACTECONP15				SC 80BB	
REACTECONP16	Handicap Electronic Filtered	B Annual		Board Output	7950C		REACTECONP16				SC 80B	
REACTECONP17	Current Indicator	B Annual					REACTECONP17				SC 81	
REACTECONP18	Current Indicator	B Annual					REACTECONP18				SC 81	
REACTECONP19	Voltage Indicator	B Annual					REACTECONP19				SC 81	
REACTECONP20	Current Indicator	B Annual					REACTECONP20				SC 81	
REACTECONP21	Voltage Indicator	B Annual					REACTECONP21				SC 81	
REACTECONP22	Current Indicator	B Annual					REACTECONP22				SC 81	
REACTECONP23	Voltage Indicator	B Annual					REACTECONP23				SC 81	
REACTECONP24	Power	B Annual		Electron	CP88		REACTECONP24				SC 81A	
REACTECONP25	Flow Indicator	Annual		Electron	CP88		REACTECONP25				SC 81A	
REACTECONP26	Flow Indicator	Annual					REACTECONP26				SC 81	
REACTECONP27	Flow Indicator	Annual		Flow Analyzers	20		REACTECONP27				SC 81	
REACTECONP28	Miss Detector	Annual		Flow Analyzers	20		REACTECONP28				SC 81	
REACTECONP29	Particle Counter	Annual		Particle Research Systems	LMH-LTIC		REACTECONP29				SC 81	
REACTECONP30	Particle Counter	Annual		Particle Research Systems	LMH-LTIC		REACTECONP30				SC 81	
REACTECONP31	Weight 30g	Annual		Toscon	30g		REACTECONP31				SC 81	
REACTECONP32	Weight 30g	Annual		Toscon	30g		REACTECONP32				SC 81	
REACTECONP33	Weight 30g	B Annual		Toscon	30g		REACTECONP33				SC 81	
REACTECONP34	Balance P105	Annual		CHALE	CP105		REACTECONP34				SC 81A	
REACTECONP35	Balance P105	Annual		Thermo	105		REACTECONP35				SC 81A	
REACTECONP36	Balance P105	B Annual		CHALE	CP105		REACTECONP36				SC 81T	
REACTECONP37	Balance P105	B Annual		CHALE	CP105		REACTECONP37				SC 81T	
REACTECONP38	Balance P105	B Annual		CHALE	CP105		REACTECONP38				SC 81A	
REACTECONP39	Balance P105	B Annual		CHALE	CP105		REACTECONP39				SC 81A	

**Data Load Template**

# Clients

**PROCAL**  
V5

Calibration & Maintenance  
Asset Management Software

## Clients Currently Using ProCalV5

