

Välkommna till 2006 års met/cal möte



Bodycote Metech Linköping
Bodycote Metech Linköping
Caltech
SAS
SP
SP
Volvo Car Corp.
Volvo Car Corp.
Volvo Car Corp.
Volvo Car Corp.
SAAB Automobil AS
SAAB Automobil AS
SAAB Automobil AS
SAAB Automobil AS
Intertek ETL SEMKO
Ringhals
Ringhals
Siemens
Scania
Scania
Coor
Gambro
Euromaint Rail AB
Stora Enso
Stora Enso
Tetrapak
Fluke
Caltech
Caltech

Staffan Persson
Thomas Bomgren
Joachim Ottosson
Håkan Bylund
Maria Hammarquist
Thanh Tang
Cecilia Björkholtz
Daniel Pantzar
Peter Magnusson
Leif Johansson
Toni Dingneus
Anders Persson
Andreaa Bäck
Dan Ivarsson
Robert Lindström
Benny Larsson
Jan Hedlund
Christoffer Wetterqvist
Lars-Åke Dahlqvist
Ulf Karlsson
Manfred Schlapp
Petr Lindblad
John Eriksson
Sven Davidsson
Ulla Claesson
Ricky Möller
Steve
Mats
Henrik



Met/Cal möte 2006

Agenda:

- 09:00 Kaffe
- 09:15 Välkomnande
- 09:30 Presentation av deltagarna
- 09:45 Pressenation av met/cal 7.11 och 7.2 och (Steve Consterdine)
- 12:00 Lunch
- 13:00 Presentationen fortsätter med met/cal G2
- 13:30 OTS programvaror, samt met/temp och nyheter Caltech (Mats)
- 14:00 Statestik i met/cal Q&A samt CRR
- 14:30 Frågor /Användare som har något att berätta
- 15:00 Fika
- 15:30 Mötet avslutas

CHANGES MADE TO THE DATABASE INVENTORY TABLE

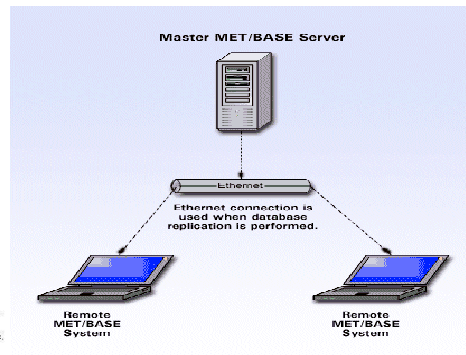
id: 012/2001

Asset #	800405	Field:	Status	Take a look at this, the status changes were recorded.
Log Date & Time:	1/21/2001 4:00:30PM	As Found:	LOANED	
Action:	UPD	As Left:	SHELF	
Made the change:	doagf			UPD means the existing record was updated.

Asset #	800405	Field:	DateTime Entered
Log Date & Time:	1/21/2001 4:00:30PM	As Found:	2000-01-18 22:56:14:80000
Action:	UPD	As Left:	2001-01-21 15:00:30:40000
Made the change:	doagf		

Asset #	800405	Field:	Who Edited
Log Date & Time:	1/21/2001 4:00:30PM	As Found:	None
Action:	UPD	As Left:	doagf
Made the change:	doagf		

You can even keep track of who made the last change and the current record change.



Enter New Calibration Record Fields

Barcode/Asset Number = 1000

Kalibrera: H: 2004-10-01 09:51:51 Meta id: 2004-10-01

Arbetsbaser: C-Time: NA

Före/ Efter (L): OK: Kalibrera: FÖRÖ-LEFT: Y: 10

Kalibreringsmetod: Met/Cal: 10000 C-Tech: Data Svensson

°C: 23 45 Maint. Notes:

Anmärkingar: Detta instrument är perfekt

Met/Cal Calibration 1004.000 - Microsoft Internet Explorer

Cal-date: 07/27/2004 Cal-Time: 12:58:19 Pass: 12 Interval: 12 Interval Units: M Due-Date: 07/27/2005

C-Tech: TECH1 C-Time: 4 Temp: 25 Humidity: 50 Scale: 1 Found/Left: FOUND-LEFT

Active: Calibration Procedure Used: Tack TDS 300A (1 Year) CAL VERA IEEE A500-5000

Comment: Demo data

Standards Used: SAMPLE-5500 Fluke 5500A CALIBRATOR

REFRESH DATA

This page generated on: Monday, July 1, 2003 16:39:41

METEX Serial#: 01321 GUI Version: 1.2.0

ect License

Master	Product	Remote
3	MET/CAL	1
0	5500/CAL	1
4	MET/TRACK	1
0	Barcode Magician	0
1	Process/Track	0

Transfer License(s) Close

Calibrate... Configure Break Tools Security About...

Mats Svensson Rev: 1.00

TILLÄGS PROGAM

NYHETER FRÅN CALTECH

ÖVRIGT

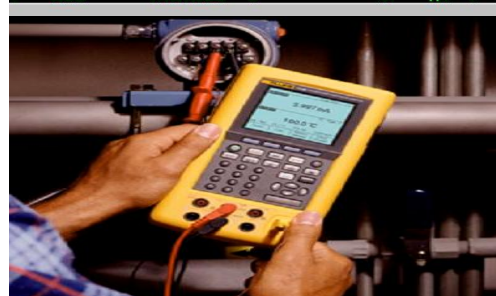
Adjust stimulus for a UUT reading of 5 bar.

4,99999 bar

Ok

Caltech

Range	UUT Indicated	System Actual	C Modifier	Error	%Tol
6	0.2BARA	0.20013BARA	N	-650 ppm	0
6	1BARA	1.00176BARA	N	-0.176 %	3
6	3BARA	3.00238BARA	N	-793 ppm	4



Equipment Info

Step 2: Reference... Step 3: Scanner... Step 4: Heat Sources...

Readout: Model: 1529 S/N: 6543 Port: A

Probe: Model: 7000RTD

Heat Source #1: Model: 9150 S/N: 1234 Port: C

COM Port... COM4

Set-points... Test Probes...

Start Test Close Help

Insert Calibration results - One Test at a Time

Test Number: 1

CALIBRATION RESULTS FOR ASSET NUMBER 1000 DATED: 2004-10-01 09:51:51 *** FOUND-LEFT

Test Nominal	Nominal Prefix	Nominal Eng Units	System Actual	UUT Indicated	Standard Accuracy in Units	Lower Limit	Upper Limit	Error Deviation
UUT Range <td>Modifier Value <td>Modifier Prefix <td>Modifier Eng Units <td>UUT Accuracy in Units <td>UUT Accuracy in Units <td>Percent Tolerance <td>Pass / Fail <td>T/A Ratio </td></td></td></td></td></td></td></td>	Modifier Value <td>Modifier Prefix <td>Modifier Eng Units <td>UUT Accuracy in Units <td>UUT Accuracy in Units <td>Percent Tolerance <td>Pass / Fail <td>T/A Ratio </td></td></td></td></td></td></td>	Modifier Prefix <td>Modifier Eng Units <td>UUT Accuracy in Units <td>UUT Accuracy in Units <td>Percent Tolerance <td>Pass / Fail <td>T/A Ratio </td></td></td></td></td></td>	Modifier Eng Units <td>UUT Accuracy in Units <td>UUT Accuracy in Units <td>Percent Tolerance <td>Pass / Fail <td>T/A Ratio </td></td></td></td></td>	UUT Accuracy in Units <td>UUT Accuracy in Units <td>Percent Tolerance <td>Pass / Fail <td>T/A Ratio </td></td></td></td>	UUT Accuracy in Units <td>Percent Tolerance <td>Pass / Fail <td>T/A Ratio </td></td></td>	Percent Tolerance <td>Pass / Fail <td>T/A Ratio </td></td>	Pass / Fail <td>T/A Ratio </td>	T/A Ratio

Calculate Fields

Post-test Remark

Scan Through All Results

Editing Commands: First Previous Next Last Clone Add New Delete Save Cancel

On Time Support, Inc.

MetDaemon Administration

User Name: ✓

Password: ✗



OTS Program, BCM 1.6+

- ✓ Mycket mer än en streckkodsläsare
- ✓ Lägg till det du kan göra i Met/Track på en bråkdel av tiden i “badge” (asset, Calibration record, result, maintenance, location)

Enter New Calibration Record Fields

Barcode/Asset Number = 1000

Kalibrerad: 2004-10-01 kl. 09:51:51 Nästa kal: 2004-10-01

Arbetsorder: NA C-Time:

Före (F)/Efter (L): FOUND-LEFT OK: Y Kalintervall: 12

Kalibreringsmetod: Met/Cal: test6 *** (METICAL Procedure List) *** C-Tech: Mats Svensson

°C: 23 %RH: 45 Maint. Notes:

Anmärkingar: Detta instrument är perfekt

Insert Calibration results - One Test at a Time

Test Number: 1

CALIBRATION RESULTS FOR ASSET NUMBER '1000' DATED: 2004-10-01 09:51:51 *** FOUND-LEFT

Header Information

Test Nominal	Nominal Prefix	Nominal Eng Units	System Actual	UUT Indicated	Standard Accuracy in Units	Lower Limit	Upper Limit	Error Deviation
UUT Range	Modifier Value	Modifier Prefix	Modifier Eng Units	UUT Accuracy in Units	Percent Tolerance	Pass / Fail	T/U Ratio	

Note: The first line values are all in Units of Nominal. Including the first line of calculated fields. Click on the Calculate Fields Button to make the calculations, assuming that the UUT Tolerance is asymmetrical. You may override the calculations if the UUT Tolerance is NON-symmetrical.

Post-test Remark:

Scan Through All Results: First Previous Next Last

Editing Commands: Clone Add New Delete Save Cancel



OTS Program, BCM 1.6+



Pricka av aktiviteter



Skriv ut rapporter

Enter New Calibration Record Fields

Barcode/Asset Number = 1000

Kalibrerad: 2004-10-01 kl. 09:51:51 Nästa kal: 2004-10-01

Arbetsorder: NA C-Time:

Före (F)/Efter (L): FOUND-LEFT OK: Y Kalintervall: 12

Kalibreringsmetod: Met/Cal: test6 *** (METICAL Procedure List) *** C-Tech: Mats Svensson

*C: 23 %RH: 45 Maint. Notes:

Anmärkingar: Detta instrument är perfekt

fixg	varg	lower_limit	upper_limit	test_statu	
Fluke 23 III: (1 year) CAL VER /5520					
0.0 Ohm	0.00 Ohm	0.1	-0.3	0.3	Pass
0.0 Ohm	0.00 Ohm	0.0	-0.3	0.3	Pass
270.0 Ohm	270.00 Ohm	269.8	268.3	271.7	Pass
270.0 Ohm	270.00 Ohm	270.0	268.3	271.7	Pass
270.0 Ohm	270.00 Ohm	269.9	268.3	271.7	Pass
2700 Ohm	2700.0 Ohm	2701	2685	2715	Pass
27.00 kOhm	27.000k Ohm	27.01	26.85	27.15	Pass
27.00 kOhm	27.000k Ohm	27.02	26.85	27.15	Pass
270.0 kOhm	270.00k Ohm	270.1	268.5	271.5	Pass
2.700 M Ohm	2.7000M Ohm	2.700	2.685	2.715	Pass
2.700 M Ohm	2.7000M Ohm	2.699	2.685	2.715	Pass
2.700 M Ohm	2.7000M Ohm	2.701	2.685	2.715	Pass
27.00 M Ohm	27.000M Ohm	26.98	26.45	27.55	Pass
27.00 M Ohm	27.000M Ohm	27.00	26.45	27.55	Pass
27.00 M Ohm	27.000M Ohm	27.01	26.45	27.55	Pass
300.0 mV	300.00m V	299.8	299.0	301.0	Pass
300.0 mV	300.00m V	299.7	299.0	301.0	Pass
300.0 mV	300.00m V	299.9	299.0	301.0	Pass
300.0 mV	300.00m V	300.0	299.0	301.0	Pass
2.700 V	2.7000 V	2.700	2.691	2.709	Pass
2.700 V	2.7000 V	2.699	2.691	2.709	Pass
2.700 V	2.7000 V	2.699	2.691	2.709	Pass
27.00 V	27.000 V	26.98	26.91	27.09	Pass
27.00 V	27.000 V	27.00	26.91	27.09	Pass
27.00 V	27.000 V	26.99	26.91	27.09	Pass
27.00 V	27.000 V	27.01	26.91	27.09	Pass
270.0 V	270.00 V	269.8	268.5	271.5	Pass
270.0 V	270.00 V	269.9	268.5	271.5	Pass
270.0 V	270.00 V	270.0	268.5	271.5	Pass
270.0 V	270.00 V	270.1	268.5	271.5	Pass
1000 V	1000.0 V	1001	995	1005	Pass
1000 V	1000.0 V	1002	995	1005	Pass
1000 V	1000.0 V	1003	995	1005	Pass
2.700 V @ 100 Hz	2.7000 V	2.706	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.704	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.705	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.698	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.702	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.699	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.700	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.696	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.703	2.644	2.756	Pass
2.700 V @ 100 Hz	2.7000 V	2.708	2.644	2.756	Pass

E-mail Notification

✓ Skicka mail med önskad aktivitet baserat på innehållet i Met/Cal med automatik

Monthly:

☒ Beginning of Each Month

☐ End of Each Month

☒ Every Month on Start Date

✓ Gör att du får tid över till annat och inte missar att kalla in instrument

✓ Ingen klient installation bara en web browser behövs

M201	M202	M203	M204	L2001	L2002	L2003	C2303
SAMPLE-742-1	FLUKE	742-1	1 OHM RESISTANCE STD	D. DEEVER	METROLOGY	110L	1999-03-29 00:00:00.0
SAMPLE-8842	FLUKE	8842	DMM	D. RAWLINS	ENG LAB	100E	1999-08-13 00:00:00.0
SAMPLE-11	FLUKE	11	DIGITAL MULTIMETER_BLA	J. BENSON	METROLOGY	110L	2000-06-02 00:00:00.0
SAMPLE-10	FLUKE	10	DIGITAL MULTIMETER	R. ISAAC	ECM TEST	115E	2000-07-24 00:00:00.0
SAMPLE-OPFLAT-test	HOKE	36	MECHANICAL STANDARD	\$data\$	\$data\$	\$data\$	2002-07-07 00:00:00.0
SAMPLE-5700	FAKE1	FAKE	FAKE	FAKE	FAKE	FAKE	2003-04-28 00:00:00.0
sample-c2	vk	c2	mechanical standard	\$data\$	\$data\$	\$data\$	2004-01-21 00:00:00.0
sdfasdfsdfav	dtdsgf	fglds	dsfgs	dfig	sadff	df	2004-03-12 00:00:00.0
	hhh	hhh	hhh	d	d	d	2004-04-06 00:00:00.0
SAMPLE-5500	FAKE	FAKE1	CALIBRATOR	f	f	f	2004-06-21 00:00:00.0
SAMPLE-732	FLUKE	732	DC REFERENCE STD	D. DEEVER	METROLOGY	110L	2004-07-21 00:00:00.0



Met/xplorer 1.2



Met/Xplorer 1.2

- Snabbt
- Samma rapporter som i met/cal och SQL
- Endast en web browser behövs
- Support för “full results”

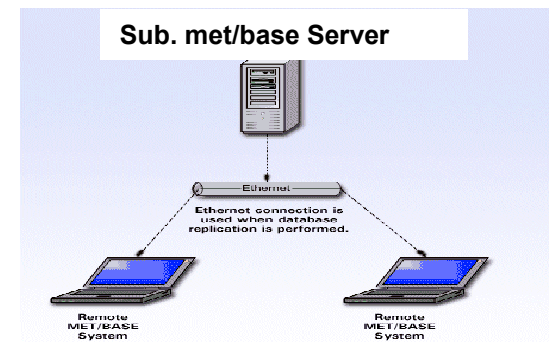
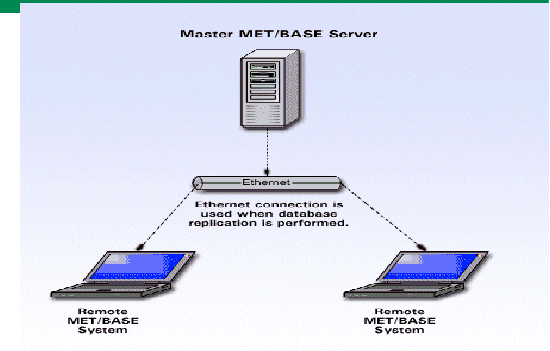
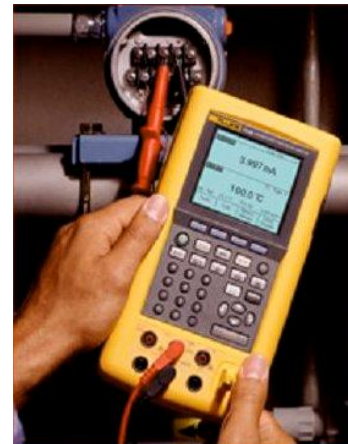
Remarks	Test Description	Sys-Actual	UUT-Indicated	Lo-Limit	Up-Limit	%Tol	Status	TUR
UUT IDENTIFICATION								
Manufacturer: TEKTRONIX								
Model: TDS 420A								
Firmware Level: CF:91.1CT FV:v1.0e								
Self Test Pass								
Signal Path Compensation Test Pass								
DC VOLTAGE OFFSET TESTS: Channel 1								
	1.0000 V	1.00000	1.0003	0.9950	1.0050	5%	Pass	
	10.0000 V	10.00000	9.9934	9.9350	10.0650	10%	Pass	
	99.9000 V	99.90000	99.8960	99.2505	100.5495	1%	Pass	
DC VOLTAGE MEASUREMENT ACCURACY: Channel 1								
	0.0000 V	0.00000	-0.0006	-0.0208	0.0208	3%	Pass	
ANALOG BANDWIDTH: Channel 1								
200MHz Bandwidth Pass								
DC VOLTAGE OFFSET TESTS: Channel 2								
	1.0000 V	1.00000	1.0007	0.9950	1.0050	13%	Pass	
	10.0000 V	10.00000	10.0010	9.9350	10.0650	2%	Pass	
	99.9000 V	99.90000	99.9320	99.2505	100.5495	5%	Pass	
DC VOLTAGE MEASUREMENT ACCURACY: Channel 2								
	0.0000 V	0.00000	-0.0016	-0.0208	0.0208	8%	Pass	
ANALOG BANDWIDTH: Channel 2								
200MHz Bandwidth Pass								
DC VOLTAGE OFFSET TESTS: Channel 3								
	1.0000 V	1.00000	1.0003	0.9950	1.0050	6%	Pass	
	10.0000 V	10.00000	9.9990	9.9350	10.0650	2%	Pass	
	99.9000 V	99.90000	99.9100	99.2505	100.5495	2%	Pass	
DC VOLTAGE MEASUREMENT ACCURACY: Channel 3								
	0.0000 V	0.00000	-0.0018	-0.0208	0.0208	9%	Pass	

OTS PROGRAM

✓ Remote pipeline

✓ Change/log

✓ Process/Track



Printed: 01/21/2001

CHANGES MADE TO THE DATABASE INVENTORY TABLE

Asset #	Log Date & Time	Action	Who Made the Change	Field	Status
800405	1/21/2001 4:00:36PM	UPD	doug5	As Found:	LOANED
				As Left:	SHELF
UPD means the existing record was updated.					
800405	1/21/2001 4:00:36PM	UPD	doug5	Field:	DateTime Entered
				As Found:	2000-01-18 23:58:14.850000
				As Left:	2001-01-21 16:00:30.480000
800405	1/21/2001 4:00:36PM	UPD	doug5	Field:	Who Entered
				As Found:	Mike
				As Left:	doug5
You can even keep track of who made the last change and the current record change.					

Take a look at this, the status changes were recorded.

OTS PROGRAM



Vad saknar du?



Vad kommer snart?





OTS PROGRAM



Met/Xplorer II

- Editera över webben
- Ingen installation
- Kom till Nordic Caltour nästa vecka så får du veta mer.

Metrology Xplorer v2.0 - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://localhost:90/

Metrology Xplorer v2.0 User: FLUKE | Level: 5 | Desktop: WEBTEST | 2/20/2006

File Add Edit Search Reports Tools Help

Search

Clear Search Begin Search Sort By: No Sort Descending

Instrument Browser

Core

1 of 1

Asset Number: SAMPLE-87

Manufacturer: Fluke

Model: 87

Description: DIGITAL MULTIMETER

Serial Number: 87001001

Recall Interval: 36 Interval Units: D Status: ACTIVE State of Asset: A Trace Code: 4

Acquisition Date: 1994-08-30 P.O. Number: 651848123 Purchase Cost: 340.00 Arrive Date: 2006-01-01

DB Subset: MT Options: NONE

Default Calibration Procedure Name: FLUKE 87: (1 YEAR) CAL VER /5500

Start | Fluke Metrology Software | NEW METEX2_in_progres... | Metrology Xplorer v2... | 8:47 PM

Met/Temp II

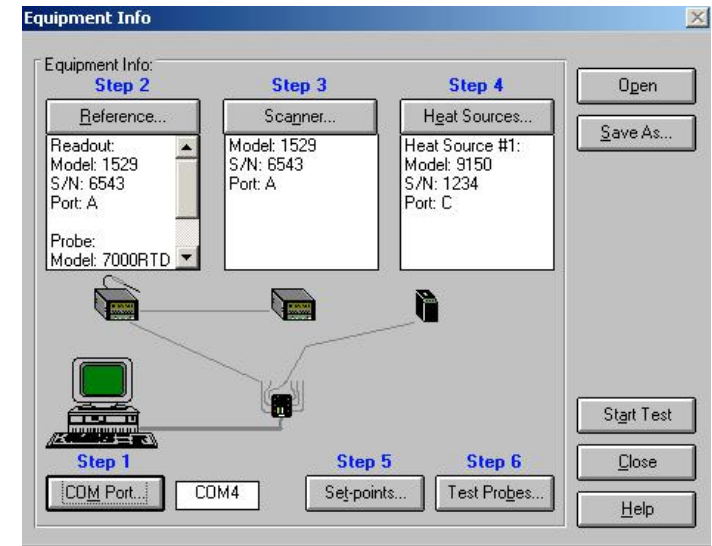


Dew-K support

Support för 917x

Synkronisering med met/track

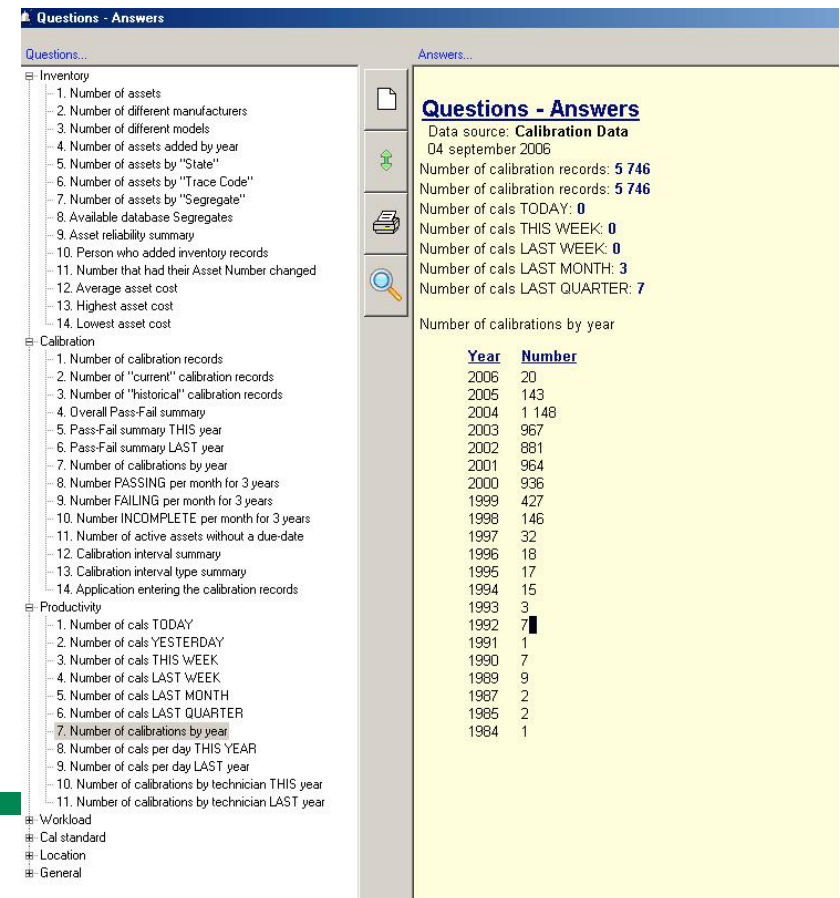
Kalibrera temp. Transmitters med Hydra
och Met/temp



Met/Cal program Q & A



- Verktøget som ger dig snabba svar på olika händelser i din databas
- Antal kalibreringar (y,m,w,d)
- Antal nya inventarier/år
- Godkända/underkända detta år
- Antal inventarier som är registrerade på användare



Questions - Answers

Questions...

Answers...

Questions - Answers
Data source: Calibration Data
04 september 2006

Number of calibration records: 5 746
Number of calibration records: 5 746
Number of calcs TODAY: 0
Number of calcs THIS WEEK: 0
Number of calcs LAST WEEK: 0
Number of calcs LAST MONTH: 3
Number of calcs LAST QUARTER: 7

Number of calibrations by year

Year	Number
2006	20
2005	143
2004	1 148
2003	967
2002	881
2001	964
2000	936
1999	427
1998	146
1997	32
1996	18
1995	17
1994	15
1993	3
1992	7
1991	1
1990	7
1989	9
1987	2
1985	2
1984	1

Inventory

- 1. Number of assets
- 2. Number of different manufacturers
- 3. Number of different models
- 4. Number of assets added by year
- 5. Number of assets by "State"
- 6. Number of assets by "Trace Code"
- 7. Number of assets by "Segregate"
- 8. Available database Segregates
- 9. Asset reliability summary
- 10. Person who added inventory records
- 11. Number that had their Asset Number changed
- 12. Average asset cost
- 13. Highest asset cost
- 14. Lowest asset cost

Calibration

- 1. Number of calibration records
- 2. Number of "current" calibration records
- 3. Number of "historical" calibration records
- 4. Overall Pass-Fail summary
- 5. Pass-Fail summary THIS year
- 6. Pass-Fail summary LAST year
- 7. Number of calibrations by year
- 8. Number PASSING per month for 3 years
- 9. Number FAILING per month for 3 years
- 10. Number INCOMPLETE per month for 3 years
- 11. Number of active assets without a due-date
- 12. Calibration interval summary
- 13. Calibration interval type summary
- 14. Application entering the calibration records

Productivity

- 1. Number of calcs TODAY
- 2. Number of calcs YESTERDAY
- 3. Number of calcs THIS WEEK
- 4. Number of calcs LAST WEEK
- 5. Number of calcs LAST MONTH
- 6. Number of calcs LAST QUARTER
- 7. Number of calibrations by year
- 8. Number of calcs per day THIS YEAR
- 9. Number of calcs per day LAST year
- 10. Number of calibrations by technician THIS year
- 11. Number of calibrations by technician LAST year

Workload

- Cal standard
- Location
- General

Questions...

- [-] Inventory
- [-] Calibration
- [-] Productivity
- [-] Workload
- [-] Cal standard
- [-] Location
 - 1. Number of assets without a location record
 - 2. Number of assets per user
 - 3. Number of assets per location
 - 4. Number of assets per Department
- [-] General
 - 1. Number of data fields in use
 - 2. Number of suppressed data fields
 - 3. Number of validated data entry fields
 - 4. License summary
 - 5. User summary
 - 6. Non working days
 - 7. Configuration Info
 - 8. Surprise

Answers...

Questions - Answers

Data source: **Calibration Data**

04 september 2006

Questions - Answers



It's no surprise...

There's a lot of interesting information in your Met/Cal database!

OK

Met/Cal program Interval Adjustor



Intervall och data analys

- Snabb analys med enkelt användar gränssnitt
- Ger dig sammanställning på specifikt inventarie eller grupp
- Antal pass/fail, mängden fel i% Hjälper dig köpa “rätt instrument”
- Ändra kalibreringsintervallet

Interval Analyzer Adjustor **FLUKE**

Filters

☒ No filters
☐ Only Passing
☐ Only Failing
☐ Reliability >
☐ Reliability <
☐ Reliability =
☒ Custom filter

☒ Active assets only
☐ Enable grouping

Reliability	Interval	Type	State	Trace Code	Asset Number	Manufacturer	Model	Description	Last Cal Date	Last Pass	Next Due Date
							23#II				
0	12	M	A	3	23-726801025	FLUKE	23#III	DMM	1999-02-15	Y	2000-02-15
0	12	M	A	3	23-71990680	FLUKE	23#III	DMM	1999-09-30	Y	1999-09-30
3	12	M	A	3	23-74361100	Fluke	23#III	DMM	2004-03-05	Y	2005-03-04
5	12	M	A	3	23-69752602	FLUKE	23#III	DMM	2004-01-19	Y	2005-01-19
5	12	M	A	3	23-69752605	FLUKE	23#III	DMM	2004-01-19	Y	2005-01-19
5	12	M	A	3	23-69752628	FLUKE	23#III	DMM	2004-01-23	Y	2005-01-21
5	12	M	A	3	23-649752636	FLUKE	23#III	DMM	2004-01-23	Y	2005-01-21
5	12								2004-01-23	Y	2005-01-21
5	12								2004-01-23	Y	2005-01-21
5	12								2004-01-19	Y	2005-01-19
5	12								2004-01-23	Y	2005-01-21
5	12								2004-01-19	Y	2005-01-19
5	12								2004-01-19	Y	2005-01-19
5	12								2004-01-19	Y	2005-01-19
3									2004-08-12	Y	2005-08-12

History

Rules

Analyze

Change Interval

Analyze... [X]

- Asset

Asset: 23-69752602

Summary

Cal Results - Last Cal

Cal Results - All

- Family

Manufacturer: FLUKE
Model: 23#III
Description: DMM

Summary

Cal Results - All

Crystal report eller ISQL



Eller varför inte låta Crystal analysera allt som finns i databasen.

Exempel med Asset och modell

Bra sida med SQL

http://www.w3schools.com/sql/sql_orderby.asp



Nyheter från Caltech



VERITEQ



✓ **MI:** 6242A och 6242T automatisk resistans och temperatur brygga 0,3ppm

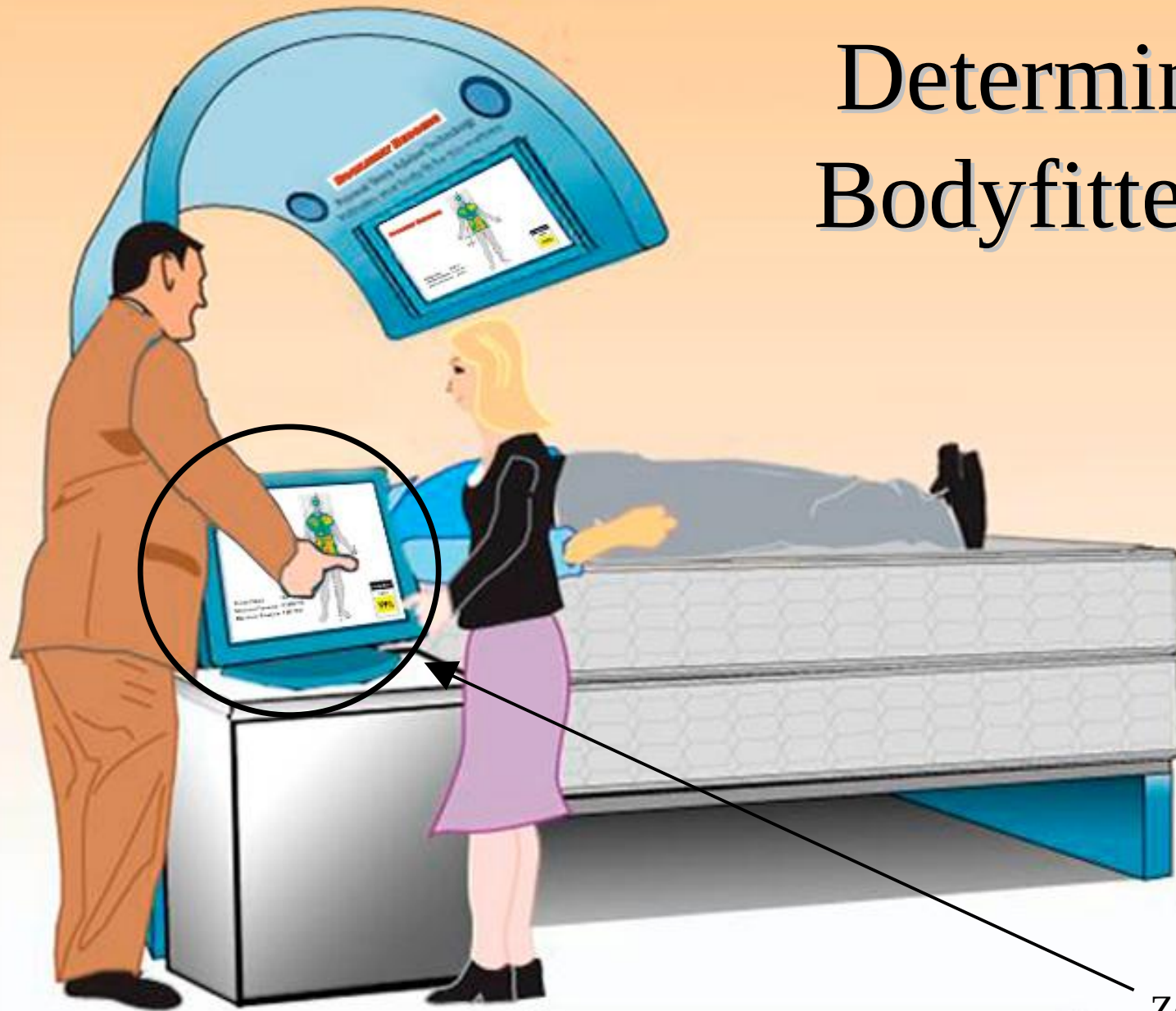
✓ **VERITEQ:** View link S/W för övervakning av temp och Fukt med larm över mail.



Vilken är den bästa madrassen?



Determining the Bodyfitter[®] Index

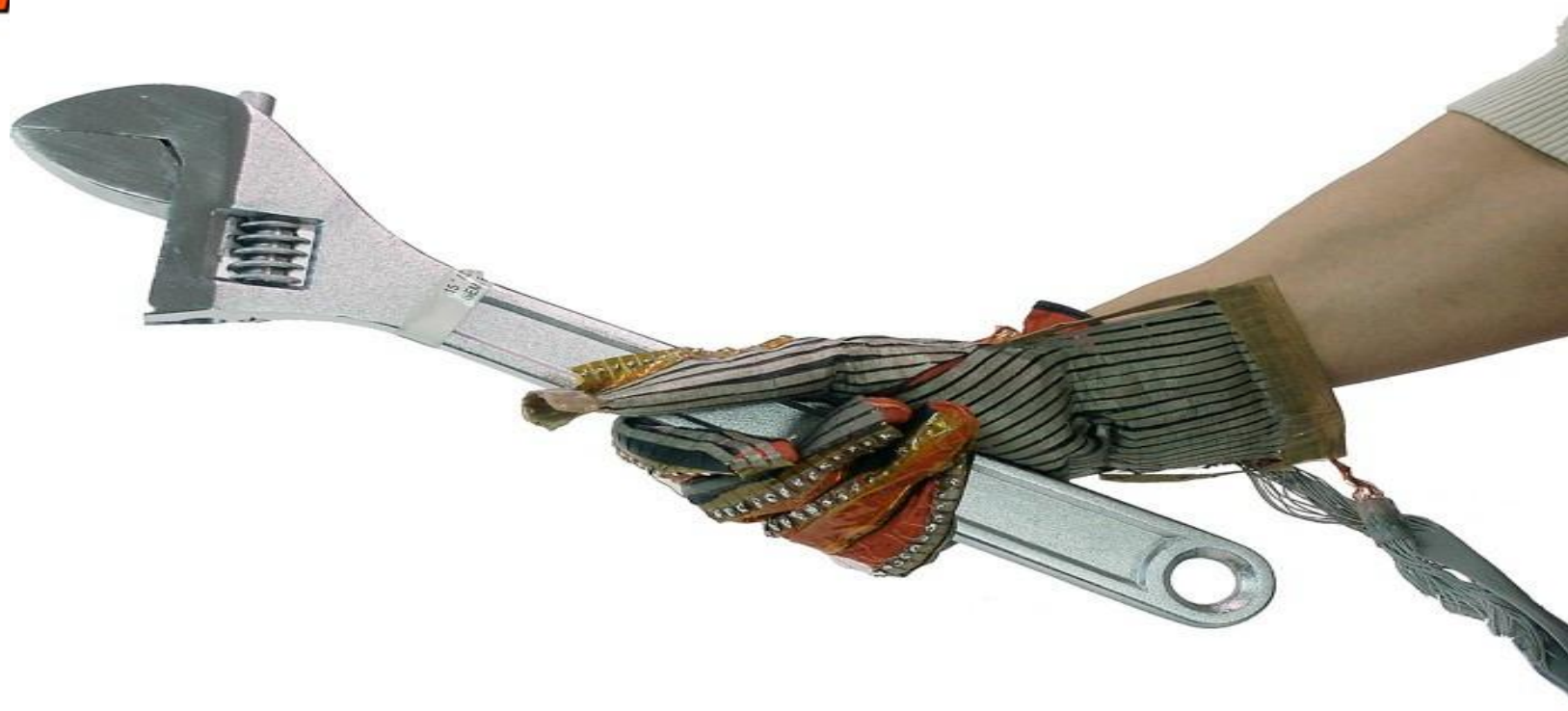


Zoomed view on next page. ↓

NEC

MultiSync LCD2040NX

ROCKAWAY BEDDING



Average Pressure: 0.17 PSI (0.02 kg/cm²)
Maximum Pressure: 3.0 PSI (0.2 kg/cm²)
Contact Area: 241.2 in² (1,556 cm²)



39%

Nyheter från Fluke

✓ Vad kommer snart?



Fluke 5320 Installations test kalibrator

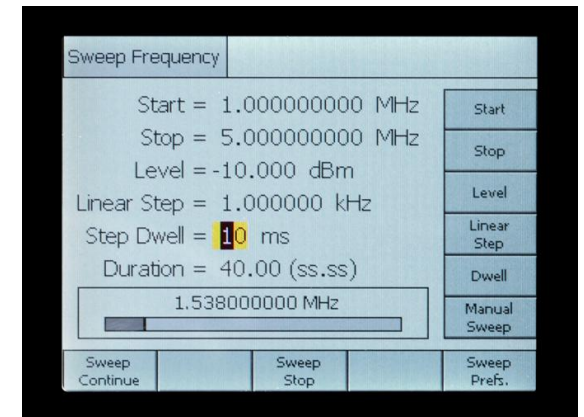


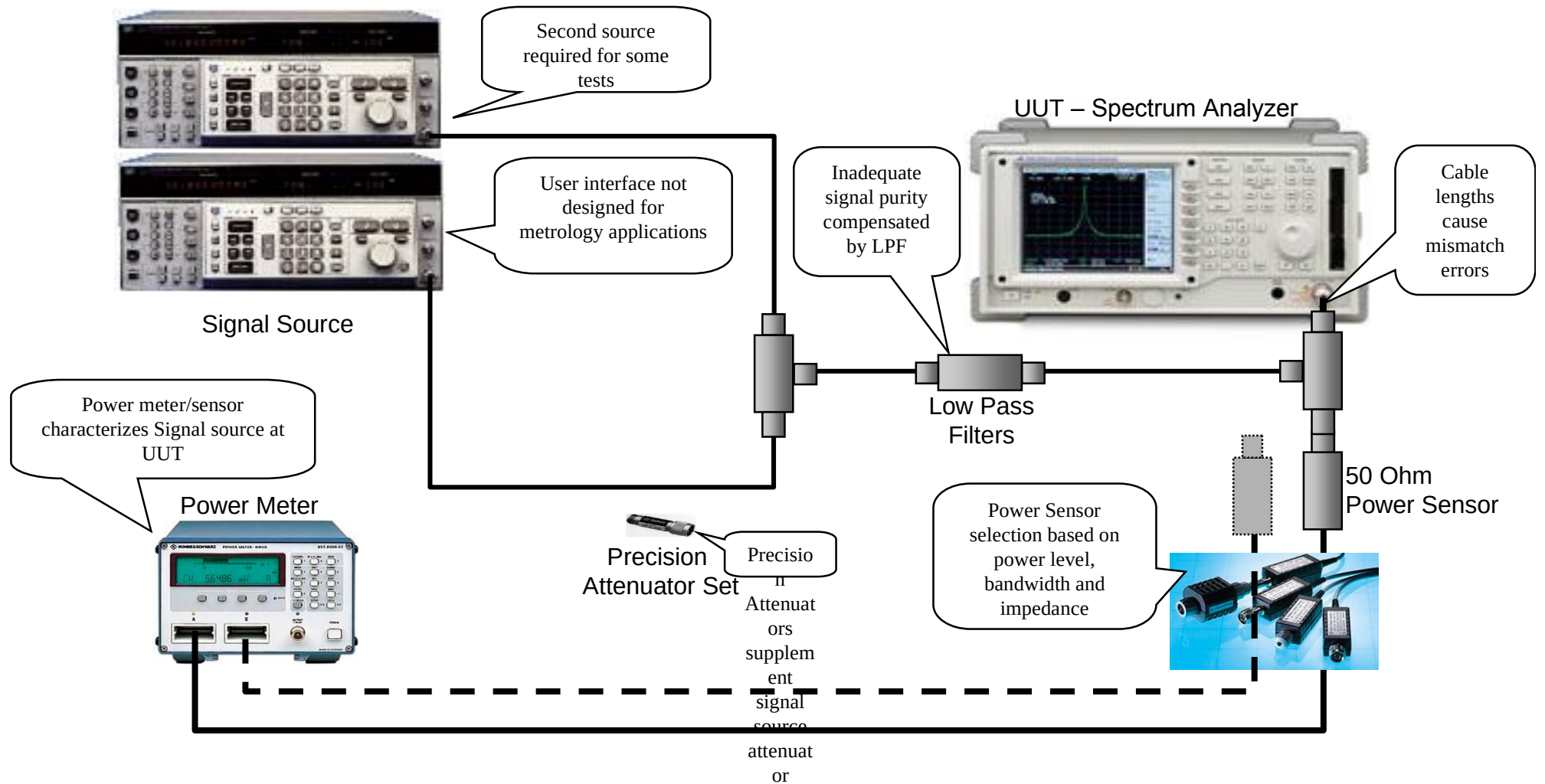
- RCD tester
- Isolations resistans tester (Megohm meters/Meggers)
- Jord resistans tester
- Multifunktion Installation tester
- Hög volts tester "HIPOT"
- För mer info kom nästa vecka



Fluke 9640 RF reference generator

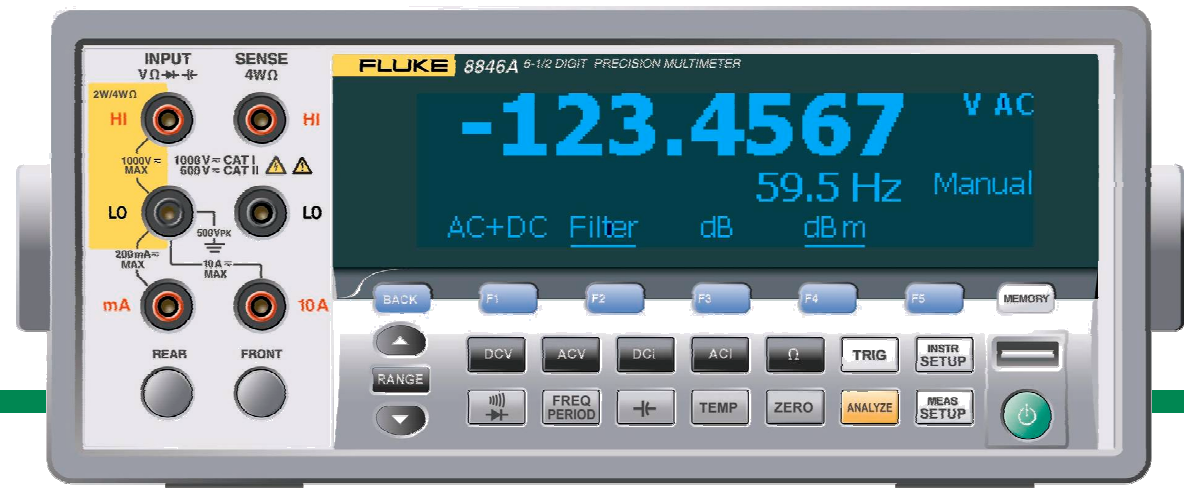
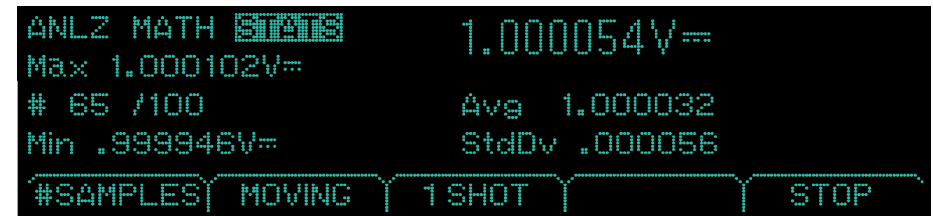
- Spectrum analysator
- RF mV meter
- RF effekt meter och sensorer
- Modulation meter & analysator
- Andra RF test utrustningar
- Produktion där noggrannhet och flexibilitet i en box behövs
 - Tar dig från några få Hz till 4GHz.
- Kom nästa Vecka





Fluke 8845/46

- 6 1/2 siffrors DMM
- ACV, DCV, ACI, DCI, RES, TEMP, CAP och FREQ
- Onoggränhet från 0,0024%
- “Duel display”
- Dubbla ingångar
- HP 34401 och Fluke 45 emulator
- Statestik
- PRIS



Advanced Metrology Training, Everett

- Confidence in metrology, philosophies in using 99% & 95% confidence factors
- Guarding, grounding and EMFs
- Review of interconnection and mismatching errors
- Impedance effects during calibration
- AC/DC low voltage metrology challenges
- Low- and high resistance measurement

Advanced Metrology Training, Everett

- Ratio measurements
- Transfer of uncertainty components
- High current generation using coils
- Calibration and measurement of high frequencies
- Monitoring internal standards
- Statistical methods of analyzing measurement data
- Visit on Flukes prim. Lab.

Advanced Metrology Training, Everett

- Included in price:
 - Training including material
 - 5 hotel nights in single room
 - 5 lunches and 5 dinners
 - Transportation from hotel to Fluke Park and back
- Price SEK 12500:- / person
- Air fare examples (4/9) Stockholm – Seattle:

• SAS	7786:-
• Continental Airlines	6277:-
• Northwest Airlines	6752:-

Caltech Mölndal

- EL
- Temperatur
- Längd
- Moment
- Procedur utveckling



Service



Samarbetspartners - Agenturer



Fluke

Hart Scientific

DH Instruments

Measurement
International

On Time Support

Isopharm

TMI-Orion

Veriteq

RPM

Sensor Products Inc

Tegam

Clarke-Hess

TiL

Frågor ?

