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- Extremely robust and reliable
- Saltwater-proof
- High accuracy (Grade 2A/0.5 %)
- Fibreglass reinforced plastic housing with unbreakable baffle wall and blow out back
- Wall fixing integrated in the case
- Micro adjustment pointer for zero point correction
- Subsequent housing filling possible (gasket set)
- Optional with additional electrical contacts (switching contacts)

**Purpose-built for use in the oil and chemical industries**

Process gauges have been specially designed for use in the oil and chemical industries. Process gauges can be used for gaseous and liquid, aggressive, not highly viscous and non-crystallising materials. The extremely robust design and the use of high-grade materials guarantee absolutely reliable operation even under extreme operating conditions. The stable, fibreglass reinforced plastic housing with a solid baffle wall and blow out back is designed as a safety housing. A wall fixing is already integrated in the housing. The equipment can be subsequently prepared for housing filling using an additional gasket set. Most internationally used pressure units are available for the scale.

**PHD - Thesis : Vertical land motion at the coast and sea level change**  
 Kevin Gobron\* - Supervisors : Olivier de Viran\*, Michel Van Camp\*

**New tide gauges cross-calibration method : multi-instrument data combination**  
 Application to a multi-instrument experiment carried out in 2016 by SONEL, SHOM & LIENSa\* teams on the Aix island, France.

**Tide gauges calibration**  
 Studies about sea level change at the coast require high quality sea level time series. The main source of sea level measurements is provided by digital coastal tide gauges. Calibration campaigns are regularly carried out to ensure their precision & accuracy. Several types of sea level sensors exist - tide pole, probe, radar tide gauge, pressure tide gauge, GNSS buoy, GNSS reflectometry - but their field performances are usually unknown. We show that a new calibration method can take advantage of simultaneous measurements to better assess sensors biases but also estimate the uncertainty associated with each sensor.

**Most common tide gauge errors**  
 Observed sea level  $y(t) = S(t) + \epsilon(t) + \delta(t) + \eta(t)$   
 • The time delays ( $\delta$ ) are non linear biases that are usually estimated and corrected by maximizing the cross-correlation between 2 sea level signals.  
 • The offsets ( $\epsilon$ ) are constant errors.  
 • The scale errors ( $\eta$ ) are errors proportional to  $y(t)$ .  
 • The residuals ( $\epsilon$ ) are stochastic measurement errors.

**Difference-based methods**  
 $\epsilon_{i,j}(t) = y_i(t) - y_j(t) = \epsilon_i(t) - \epsilon_j(t) + \eta_i(t) - \eta_j(t)$   
 An example in the Van de Casteele diagram. It consists in analyzing the sea level difference between one tested instrument and a reference instrument. A linear regression on the difference gives offset and scale error estimates. However, this method only works for a pair of sensors.

**Proposed method - A combination-based method**  
 If more than 2 sensors + a combination is possible. The main idea is to compare all sensor time series to a more reliable and more complete combined sea level signal, which is an average & of all corrected sea level time series, weighted by their unknown precisions. First, we build a stacked observations vector of  $p$  instruments  $(y_i)$ . Then, we define a linear parametric stochastic model  $Q$  and a linear parametric functional model  $(f)$  such as:  

$$y_i(t) = f(t) + \epsilon_i(t) + \eta_i(t)$$
  
 if the  $i$ -th sensor is unbiased  
 if the  $i$ -th sensor is affected by a scale error  
 if the  $i$ -th sensor is affected by an offset

**An improved bias estimation**  
 We compared the new results to a difference-based method. The difference-based methods did not take advantage of the redundancy of information provided by the multi-instrument experiment. Also, when the reference instrument data PROBE had missing values, the observations acquired by other instruments at the same time could not be taken into account (i.e. the difference could not be computed). With the proposed method, all observations have been taken into account because the reference combined signal had no missing values. This improvement reduced the uncertainty of the bias estimates from 30% to 50%. This is clearly visible in the Van de Casteele diagram (left) and in parameter space (right) below.

**A more complete assessment of sensor performances**  
 We applied the new method to the Aix island experiment. To avoid an ill-posed problem, PROBE was assumed unbiased, allowing to assess the offsets, scale errors of other sensors and the uncertainties of all sensors. The residuals time series help to understand the poor performance of BLOP: a 3h mean shift was detected!

TG	# sensors	offset/m	scale/m	uncertainty
PROBE	1	0.00 ± 0.00	1.00 ± 0.00	0.00 ± 0.00
MCN	1.97 ± 0.20	0.32 ± 0.07	0.91 ± 0.09	0.05 ± 0.05
PNLE	1.33 ± 0.20	0.29 ± 0.08	0.92 ± 0.12	0.05 ± 0.12
BLOP	1.30 ± 0.42	0.00 ± 0.12	1.02 ± 0.12	0.10 ± 0.12
LASER	1.42 ± 0.20	0.13 ± 0.08	0.90 ± 0.10	0.05 ± 0.10
ENSL2	1.32 ± 0.20	0.17 ± 0.07	0.79 ± 0.09	0.05 ± 0.09

**Conclusions**  
 • Pairwise difference-based methods are not suited for multi-instrument calibration campaigns.  
 • An improved sensor calibration (combined signal + sensor biases + sensor uncertainties) is possible by using a combination formulation of the problem along with a Variance Component Estimation method.  
 • The better use of all available observations can lead to a reduction of bias uncertainties in case of missing values: here a reduction from 30% to 50%.  
 • The formulation is flexible and can be extended to longer time series and to ultimate satellite calibration.





# Air Pressure Gauge Calibration - Zenith Instruments



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We recommend that the comparator be screwed to your bank or table. CauciÅ "N: Never use keys when connecting the meter adapter to stem fixation is sufficient to ensure a free -free connection. Exercise of the pressure cycle: unless the opposite is specified, the pressure cycles must be applied to the exercise (preload) of the UUC according to the kind of precise indicated in the Guide of Calibration of pressure of DKD pressure R 6-1: 2002. . - After applying the entrance pressure at each point of medicine, 30 seconds are needed to wait before taking a reading. Doc.no.qsp-16 Rev: 00 Publication date: 09-30-2013 We will now calculate the uncertainties associated with the amounts of entry and calculate the combined uncertainty for production. IX = mgcal + I'id + IR mgcal = reference value from calibration certificate of master test gauge. Preliminary operation 3.1 Read everything before starting calibration. An exact entry pressure that is developed by pressure comparison can be calculated from the following equation. Check again that the reservoir is full, then turn the mango in the opposite direction until it stops in the full output position. a) MgcAl = cal Certificate of DWT reports uncertainty. Betalink & quot instrumentation; CALIBRATION SERVICE LLC CALIBRATION OF Pressure Gauge Calibration Procedure for Pressure Gauges Ref. 0.25% of Fullscale (IN VACCUm). For quasi -static calibrations (principle of the neuzeoelctricio sensor). Doc.No.qsp-16 Rev: 00 Publication date: 09-30-2013 1. Waiting times can be replenished. Once we have calculated all the uncertainty components for a medicine process, we will do the budget. RESOLUTION: 1 PSI/0.01BAR METHER TEST COMPARISON WITH THE PRESSURE USED IN THE COMPARISON. In this case, corrections for the pressure indicated are insignificant. PURPOSE OF METHOD STATEMENT: The purpose of the method statement is to ensure that the Calibration " Pressure gauge test is carried out in with the requirements according to the regulations and quality. (\*\*\*) One has in any case to wait until steady-state conditions (sufficiently stable indication of standard and calibration item) are reached. REFERENCE STANDARD: ÅÅ Å DKD-R 6-1 DIN EN ISO/IEC 17025:2003 eÅÅCode of practice for the calibration and testingÅÅÅ. Doc.No.QSP-16 Rev:00 Issued Date: 30-09-2013 6. Turn the handle counter-clockwise until you see the fluid level in the reservoir drop. Doc.No.QSP-16 Rev:00 Issued Date: 30-09-2013 3.7 Install the gauge to be tested: As with the digital gauge, choose the appropriate adapter, either the quick connect or regular gauge adapter (Figure 4). 3.4 Install the flange stem or stem adaptor : There are two stainless steel flange bases. Table 1: Calibration sequences Calibration sequence Measurement uncertainty aimed at. Ir = Repeatability of UUC gauge 5.2 UUC gauge reading has to be observed and recorded in the table attached in Appendix A. Calibration Procedure: IMPORTANT NOTE: - Before calibration, a zero reading at the UUC while the hydraulic is opened to an atmosphere after exercise shall be observed. Symbol Doc.No.QSP-16 Uncertainty Value Probability Rev:00 Divisor Ci U(xi) Issued Date: 30-09-2013 source MgcAl Å±Å Pa distribution Å Åld Ir Cal Uc for DWT Resolution Repeatability U(Ix) U Combined Std UC Expanded Uncertainty Pa Å±Å Normal Rectangular Normal Normal K=2 RELATED DOCUMENTS: ÅÅ Å Instrument work sheet ÅÅ Å Calibration certificate Doc.No.QSP-16 Rev:00 Issued Date: 30-09-2013 0.6 9 2 > 30 2 2 1 C > 0.6 5 1 > 30 2 1 1 (\*) Reference to the span was used to allow the sequence (necessary calibration effort) to be selected from the table. (Refer to the documentation you received with your Crystal Engineering XP2i for detailed operating instructions.) 4. use PTFE thread tape when installing either the flange stem or the stem adapter into the flange base . If air bubbles are present in the system, the test fluid in the reservoir will fall as it flows to the comparison. in % of the measurement interval Doc.No.QSP-16 number of measurement points number of preloads Rev:00 load change + waiting time at the upper limit of the measurement range number measurement series edition date: 30-09-2013 (\*) with zero (\*\*\*) seconds top/low (\*\*\*) minutes up to tere 0.1 9 3 ± 30 2 2 b 0.1 . . the cover of the reservoir has no slope to allow the gaugecalcp to be transported with the test fluid in place. refer to the document no : 3171 Rev. C GaugeCalXP US Web Manual . figure 1 for the hole pattern and the suggested bolt size. as, y= and psi(U) and in this case and the average pressure of the range is measured, this "y" output estimate in conjunction with the enlarged uncertainty "U" will define our measurand "Y" that is, the pressure. 6Id = uncertainty due to uuc caliber resolution. Procedure: 3. 3.9 configure the digital pressure gauge: turn on the xp2i and then select the required pressure units for the meter to be tested - kg/cm2, bar, kpa or psi. 5.1 generate a known, step-by-step pressure: from a minimum to maximum range explained in table 1 to uuc. Although the English key plans are provided in the fast connection adapter, they are designed only to help remove the adapter. Important note :The pressure gauge can damage the pressure sensor , soft pressure changes are required along the calibration , data analysis and uncertainty calculation: the measurement result and measurement uncertainty can be calculated using the method indicated in dkd r 6-1 :2002 , meter calibration ed ed n'Acarbilac al araP: atoN .tsnl :oN boJ :sabeurp ed n'Acaraper ed etneilC noitarbilaC Å XIDNEPPA 3102-90-03 :n'Acacilbup ed ahceF 00:veR 61-PSQ.oN.coD n'Åiserp .:oN .rS :oledoM :ognaR .n'Åicprcsed .otircse osimrep nu nis SCIB ed areuf anosrep reiuqlaC a adagluvid o .etnemlaicrap o latot oidem orto reiuqlauc o mliforcim .aipocotof .n'Åiserpmi rop amrof reiuqlauc ne adicudorper res edeup otneumocod etse ed etrap anugniN THGIRYPOC :etaD :ngiS :o±ÅesiD :erbmoN :rop odaborpÅ :ahceF :amriF :o±ÅesiD :erbmoN :oiratnemoC :ahceF :amriF :o±ÅesiD :erbmoN :rop odaraperP 52071 CEI/ OSI 1-6 R-DKD :mroN .sodalatsni sodipiÅr serotcenoc arap ollat ed rodapada nu o adirb ed ollat nu remet a sadanitsed n'Åtse sesab satsE . odazilitu res edeup . rodalles o olih ed atnic al .sevall sal animile euq adipiAr n'Åixenoc ed n'Åicajif al , sonem o jrab053i isp 0005 a natmil es sabeurp sal is 3102-90-03 .n'Acacilbup ed ahceF 00:veR 61-PSQ.oN.coD .roirepus etrap al ed jÅ4/1(mm ed ortned atsah abeurp ed odiugÅl le noc eslabme le anell ogeul .n'Acarbilac al etelpmoc es euq atsah 2.5 y 1.5 osap le atipeR 3.5 .n'Acarapmoc al noc etnemrauger .Årazilitu es i2PX nu oÅs is ocitejArp se otse orep .esab al ne etnematecid i2PX aicnereref ed rodidem le ralatsni ellisop SE .erbmudtrenci ed otseupuserP 2)naemX Å IX(Å D.S 2)naemX-IX j Å IX(ED XED jgvaX-IX aPM IX oN .j6113 .NP( rodapada la rodidem le eniurra ogeul y .n'Åiserp ed rodidem ed solih sol a EFTP acsor ed atnic al euqilpa .adirb al ed ollat le odnasu jÅtse is .opiuge le odot etenocessed y n'Acidem ed ametisis led n'Åiserp al adot erebiÅ. 4.5 .sacitjÅmetisis serbmudtrenci omoc somerartat sol .adacidni n'Åiserp al a n'Åicercoc anu omoc solracilpa ed ragul ne .otnat ol rop .sotunim oncie ed arepse ed opmeit nu avresbo es .nodruoB obut led n'Åiserp ed serodidem sol arap \*\*\*( arfni 1 ordauc le ne ebircsed es omoc n'Åiserp oreC a revolv y atelpmoc alacea a ri .oreC a raznemoc ne oditsisnoc res ebed n'Åiserp ed olcic le .oirascen se is .ollat ed rodapada led odarapes erbilac ed rodapada la raduya a sadanitsed n'Åtse sevall saL .rab 0052 a roirepus adidem ed amag anu noc 3M 3M 2M 1M 61-PSQ.oN.coD radnjÅtse P n'ÅiserP CUU ed arutelC -IW .n'Åicurtsni ojabart ed n'Åicpepsni :n'AculoseR :etnacirbaF :n'ÅixenoC :olles led M4 M5 M6 Issued Date: 30-09-2013 Attachment 1 Now we have listed down all input estimates (Xi) which are going to define output estimate (y) , i.e, pressure value of UUC gauge . as the accuracy specifications of the manufacturers are usu- ally related to the measurement span. Due to the sealing capabilities of the cap , It must be removed or ajar during testing to allow proper equalization of the systems . 3.8 Remove any remaining air from the system: Each time you install a new gauge, air bubbles may be introduced in to the comparator and cause problems with calibration. If you are using the quick connect adapter (PN 3126), just screw it onto the gauge, finger tight, then onto the stem adapter, also finger tight. 3.5 Fill the reservoir: the reservoir holds the test fluid that fills the system each time you test a gauge. Another way to remove air bubbles is to tilt the comparator. Any remaining bubbles will come out the black flange adapter. adapter.

15.03.2016 - Objective: To lay down a procedure for monitoring Temperature, Relative Humidity and Differential Pressure of microbiology lab. Scope: This SOP is applicable for monitoring and recording the temperature (0 C), Relative humidity (%) and differential pressure (mm of water) using digital hygrometers and Magnehelic gauge for Differential Pressure in microbiology lab. 11.02.2014 - Observe the pressure gauge reading for 30 seconds. If the pressure drops less than 25%, the leakage is acceptable and the unit passes the leak test. If the pressure drops more than 25%, corrective action is necessary. Sources of leaks include worn or damaged O-rings, cracked or ill-fitting tubing, and leaky pre-weighted filter cassettes. Yokogawa pressure transmitters have construction features that are designed to allow it to outlive your plant. Four-bolt pressure retaining design, Active DPharp sensor, Teflon coated 316L stainless steel flange gasket, and dual seal certified to ANSI/ISA 12.27.01 - all design features to extend the life of the transmitter. The EJX630A In-Line Mount High Performance Gauge Pressure Transmitter feature single crystal silicon resonant sensor and are suitable to measure liquid, ... Extended Calibration Intervals. ... Fieldbus DD/CF file - EJX-A Series Pressure Transmitter (except EJX910A, EJX930A) An example of this is a pressure gauge installed in a machine where the displayed pressure indicates only if there is a presence of gas or liquid. Another example is the pressure gauge installed in a gas tank, you only need to know that there is enough pressure to do the job. A thermometer is a device that measures temperature or a temperature gradient (the degree of hotness or coldness of an object). A thermometer has two important elements: (1) a temperature sensor (e.g. the bulb of a mercury-in-glass thermometer or the pyrometric sensor in an infrared thermometer) in which some change occurs with a change in temperature; and (2) some ... 9.2.6 Pressure Gauge Requirements: Pressure gauge range should be about twice the test pressure. However, in any case it shall not be lower than 1.5 times and not higher than 4 times the test pressure. The test pressure gauge unit shall be ...

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