



Calibration Certificate

Object **Mobile Phone Tester**

Manufacturer **Aeroflex GmbH**

Model **4405**

Serialnumber **1111275**

Date of calibration **25.Sep 2018**
Time of calibration **10:25:21 (GMT)**

Customer **Service**

Jobnumber **ATE annual calibration**

Extend of certificate **3 pages (including this)**

Authorized technician **digimes**

Signature **on behalf**

Certification ID: **B004A3270**

This calibration certificate documents that the named model has been tested and calibrated in conformance with DIN EN ISO9001 and meets the specifications as written in the product documentation
The test results are within a confidence level of approx. 95%, coverage factor $k = 2$
The test equipment used for calibration is calibrated on a schedule and traceable to national and international standards

The user is obliged to have the mode recalibrated at appropriate interval:
For more details see attached "Guideline for determination of calibrator intervals" (page 3 of 3)

The calibration certificate may not be reproduced other than in full
Calibration certificates without signature are invalid.

The calibration was carried out by:
**DIGIMES
Service Center
Wilgi 36c
04-831 Warszawa
Polska**

AEROFLEX		Calibrated	
NUMBER	TECHNICIAN		
B004A3270	digimes		
DATE	DUE DATE		
25.Sep.2018			

Calibration System : ATE-4400C-04

Serial Number : 0711304
Date of calibration : 10 Apr 2018
Date of next calibration : 10 Apr 2019

Calibration of 4400C Traceability

Reference Instruments				Traceability	
<i>Model Number</i>	<i>Description</i>	<i>ID Number</i>	<i>Date of next Calibration</i>	<i>Calibration Service</i>	<i>Standard Institute</i>
MG3692A	RF Signal Generator	030608	May 2018	Trescal	OEM
NRP-Z21	Power Sensor	100614	Feb 2019	R&S	OEM



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PTB = Physikalisch - Technische Bundesanstalt // National German Standard Institute
NIST = National Institute of Standards and Technology USA
DKD = Deutscher Kalibrierdienst // German Calibration Service

Guideline for determination of Calibration Intervals

Aeroflex GmbH
 Gutenbergstr. 2-4, 85737 Ismaning, Germany
 Quality Management, May 2010
 contact: quality-muc@aeroflex.com

To meet the ISO9001:2000 requirements of preserving product conformity to the published specifications, the monitoring and measuring of the test equipment is essential.

An important aspect of cost efficient customer test equipment management is the determination of calibration intervals. In accordance to ISO10012 Standard there are two basic and opposing criteria which are required to be balanced when adjusting the intervals to its best compromise:

- The risk of test equipment failing to conform of specification and missalignment of units under test (UUT)
- Calibration costs should be kept as low as possible

Aeroflex supports their customers at such sensitive issues. We provide you a product-related usage/conditions matrix which shows the best calibration interval for your test set.

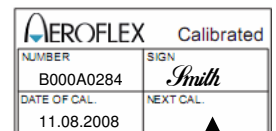
In general, Aeroflex publish on their product datasheet a 1-Year specification.

Dependant on usage, environment and application the customer can adjust the calibration interval to a suitable period.

severity of use & conditions	1-Year Calibration Interval										2-Year Calibration Interval									
	no need for functional verification test										* functional verification test after 1 Year of use is recommended									
	Terminal Test Equipment										Terminal Test Equipment									
	4015	403X	410X	420X	43XX	440X	3100	2201	2303	910X	4015	403X	410X	420X	43XX	440X	3100	220X	230X	910X
High throughput like production inhouse use and stable environment 23°C ± 4°	X	X	X	X	X	X	X	X	X	X		X*	X*	X*		X*	X*	X*	X*	X*
Medium throughput like service inhouse use and stable environment 23°C ± 4°	X	X	X	X	X	X	X	X	X	X		X*	X*	X*		X*	X*	X*	X*	X*
Low throughput like point-of-sale use in changing temp./rel. Humidity e.g. mobile	X	X	X	X	X	X	X	X	X	X										

Aeroflex’s innovative design rules and correction procedures reduce possible drift rates in products. These stable properties may allow our customers to think about extended calibration periods up to 2-Years or more.

However, a risk estimation by the customer is inevitable and we strongly recommend a suitable functional verification test latest after 1-Year of last Aeroflex calibration date.



It’s up to the customer to find out the appropriate calibration interval which matches best to his needs and risks. Therefore we’ll leave after calibration service the Next Cal-field empty at your calibration label, please add a date and documentate your chosen period.

Aeroflex’s calibration philosophy of mobile ATE calibration systems allows to offer you a quick and cost efficient calibration and verification support. Please ask your next Aeroflex Sales or Service contact for details.