

GMC-I SERVICE GMBH

YOUR RELIABLE SERVICE PROVIDER FOR CALIBRATIONS, REPAIRS, SPARE PARTS, RENTAL EQUIPMENT

GMC INSTRUMENTS

WELCOME TO



GOSSEN METRAWATT

GMC INSTRUMENTS



GMC-I SERVICE GMBH

CONTENT:

- CONTACT PERSON & CONTACT DETAILS
- GMC-I AS SERVICE PROVIDER
- YOUR ADVANTAGES & BENEFITS
- SERVICES AT A GLANCE
- KNOWLEDGE & KNOW-HOW AROUND THE TOPIC OF CALIBRATION
- OUR INDIVIDUAL, ALL-ROUND CAREFREE PACKAGES
- PRICE INFORMATION
- IZYCHECK.IQ CLOUD BASED DEVICE AND ORDER MANAGEMENT



GMC-I SERVICE GMBH – BEUTHENER STRAßE 41 – D-90471 NUREMBERG (GERMANY)

TEL.: +49911 817718-0 - FAX: +49911 817718-253

E-MAIL: <u>SERVICE@GOSSENMETRAWATT.COM</u> – WEB: <u>HTTPS://WWW.GMCI-SERVICE.COM/</u>

Department	Contact person	E-Mail
Calibrations	Mr. Thomas Klaus	Thomas.Klaus@gossenmetrawatt.com
Repairs, Updates & Upgrades	Mr. Waldhütter, Mr. Tempcke, Mr. Wolf, Mr. Zenger	service@gossenmetrawatt.com
Device management	Mr. Thomas Klaus	Thomas.Klaus@gossenmetrawatt.com
Spare parts	Mr. Uwe Kern, Mr. Winfried Gromann	service@gossenmetrawatt.com
Order processing	Mrs. Litzinger, Mrs. Rosenbauer, Mrs. Stelzner, Mrs. Meyer, Mr. Prieß	service@gossenmetrawatt.com
Individual service agreement	Mr. Thomas Klaus	Thomas.Klaus@gossenmetrawatt.com
After sales consulting & support	Mr. Waldhütter, Mr. Tempcke, Mr. Wolf, Mr. Zenger	service@gossenmetrawatt.com
INSTRUMENTS	PRÄSENTATION THEMA 12.07.2022 SEITE 4	© BY GMC-INSTRU

We serve approx. 150 customers daily with our calibrations and repairs of the highest quality,.

Repair & calibration orders: approx. 27.000 p.a. Spare parts orders: approx. 4.000 p.a. Customer devices: approx. 32.000 p.a. Sales volume: approx. 10 Mio. € Employees: approx. 60

Location:

GMC-I Service GmbH Beuthener Str. 41 DE-90471 Nuremberg (Germany)



More information here

GOSSEN METRAWATT

CAMILLE BAUER

© BY GMC-INSTRUMENTS

More information here

GMC-I SERVICE GMBH (YOUR) ADVANTAGES & UNIQUE SELLING PROPOSITIONS

- **100 % final inspection:** As a service provider, we check all measurement points as with your new device, which leads to a point-accurate and detailed measurement result!
- Verification of electricity meters
- Recalibration & DAkkS calibration of electricity meters
- **Conformity statement:** Proof whether devices are within the required manufacturer specification!
- Original components for repairs!
- We work in a sustainable, environmentally friendly and resource-saving way by repairing at component level, optimizing our processes certified according to ISO 14001 and cooperating with a climate-neutral parcel shipper!
- Individual service agreements/contracts: To meet your needs best!
- Digitized processes thanks to Service Cloud: With IZYCHECK.IQ you have full transparency and overview of your current orders, device status, cost estimates, calibration intervals and much more.

PRÄSENTATION | THEMA | 12.07.2022 | SEITE 6



Worldwide unique!

Only available with us! **GMC-I SERVICE GMBH** SERVICES AT A GLANCE

- ▲ Calibrations (manufacturer-independent, DakkS, factory calibration, input and test protocol)
- DAkkS power meter and converter calibrations (wind power, e-mobility, measuring units for heavy cu quantities)
- Repairs (on component level, with original spare parts)
- ▲ Meter verifications, calibrations and recalibration (by internal calibration laboratory)
- ▲ 100 % test equipment management (put the complete test equipment process in our experienced hands)
- Firmware updates and hardware upgrades (to remain compliant with standards and legal requirements)
- Spare parts service (manufacturer and location-independent, original components, framework agreement possible)
- Consultation and support by specialists (on general service issues to find the optimal solution for you)

More information <u>here</u>



SERVICES AT A GLANCE - ESPECIALLY FOR INDUSTRY

- Meter verification (MID meter, electricity billing meter, unit calibration, recalibration, incl. receipt & test protocol)
- ▲ DAkkS calibration according to DIN EN ISO/IEC 17025 for:
 - MID meters
 - Multifunctional transmitters

GMC-I SERVICE GMBH

- ▲ ISO calibrations (measuring transducers, wind power, e-mobility, measuring units for heavy current quantities)
- Repairs (on component level, with original spare parts)
- Firmware updates and hardware upgrades (to remain compliant with standards and legal requirements)
- ▲ Spare parts service (manufacturer and location-independent, original components, framework agreement possible)
- Consultation and support by specialists (on general service issues to find the optimal solution for you)
 More information here

PRÄSENTATION | THEMA | 12.07.2022 | SEITE 8

New application!





GOSSEN METRAWATT

CAMILLE BALIER





GMC-I SERVICE GMBH WHY IS CALIBRATION DONE IN GERMANY AT ALL?

Legal obligation (Germany)
 \$ 3 Industrial safety ordinance obligates to perform a risk assessment
 \$ 4 Workplace ordinance obliges regular maintenance and elimination of defects
 Deliberate, negligent violations or default can be punished according to § 22 (BetrSichV) as an administrative offense up to criminal liability!

Legal certainty (u.a. bei Produkthaftung)

Certification of legally secure calibration certificates and safe, reliable measurement data by accredited laboratories

Calibration interval

The legally compliant, appropriate calibration interval results from the **risk assessment**. According to §§ 14-17 (BetrSichV), **documentation** is mandatory for the assessment!

Manufacturer recommandation

For high demands on the measuring accuracy, we recommend a calibration interval of **1 year**. If your measuring instrument is mainly used in the **laboratory and indoors**, an interval of **2-3 years** is usually sufficient

International recognition

Guaranteed standards and acceptance thanks to DAkkS-certified calibration laboratory "Once tested, accepted everywhere".

Quality assurance (if you are ISO-certified, for example)

More information <u>here</u>



ATTENTION!

GMC-I SERVICE GMBH DIFFERENCE OF VERIFICATION AND METER CALIBRATION



Calibration

The measured value is compared with the "true" reference value (standard), the measurement accuracy is documented, the measurement uncertainty is calculated and the calibration certificate is issued. As a rule, DIN EN ISO / IEC 17025 test equipment is calibrated.

As a group of companies, we have 3 accredited calibration laboratories (GMC-I Service GmbH: D-K-20313-01-00).

New application \rightarrow DAkkS calibration of classic meters.

If meters/power transmitters are mainly used in their function as "measuring transducers" or test equipment and not for current calculation, the detection of possible measurement deviations as well as the calibration of the ancillary quantities is becoming more and more important. The DAkkS calibration of energy meters and power transmitters is becoming increasingly relevant, especially in electro mobility and renewable energy generation.

Read more about the topic in our FAQs.

Meter Verification

This is a special case of calibration. All measuring instruments whose measurement accuracy is in the public interest and which are used for billing purposes are subject to verify, e.g. electricity billing meters, if the kWh consumption is billed to a customer.

The responsibility for the implementation lies with the state verification offices or state-approved test centers for electricity meters, such as those of Gossen Metrawatt GmbH (accreditation: EBY8).

The verification period for meters is 8 years.







Take a closer look into our best practise no. 3 "Recognition-of-dakks-calibration-certificates-abroad"

The measured value is compared with the "true" reference value (standard), the measurement accuracy is documented, the measurement uncertainty is calculated and the calibration certificate is issued. As a rule, DIN EN ISO / IEC 17025 test equipment is calibrated.

As a group of companies, we have 3 accredited calibration laboratories (GMC-I Service GmbH: D-K-20313-01-00).

New application \rightarrow DAkkS calibration of classic meters.

If meters/power transmitters are mainly used in their function as "measuring transducers" or test equipment and not for current calculation, the detection of possible measurement deviations as well as the calibration of the ancillary quantities is becoming more and more important. The DAkkS calibration of energy meters and power transducers is becoming increasingly relevant, especially in electromobility and renewable energy generation.

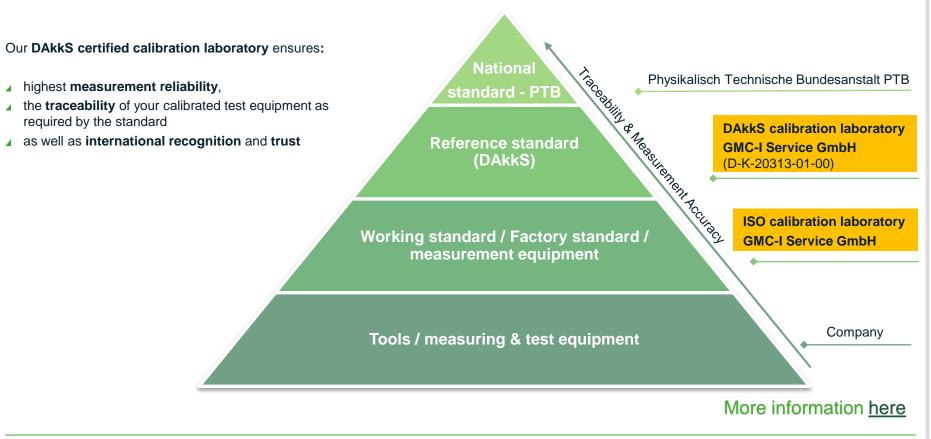
Read more about the topic in our FAQs.





GMC-I SERVICE GMBH TRACEABILITY OF MEASURING EQUIPMENT





© BY GMC-INSTRUMENTS

GMC-I SERVICE GMBH ACCREDITED AND NON-ACCREDITED METRICS



▲ Accredited measurands:

- Direct current and low frequency measurands
- DC voltage
- Direct current
- AC voltage
- AC current strength
- Direct current resistance
- Electrical power
- Capacity
- Time and frequency
- Frequency
- Temperature measurement variables
- Resistance thermometers
- thermocouples, thermocouples
- Temperature indicators and simulators
- Direct reading thermometers
- Temperature transmitters, data loggers

▲ Further measurands:

- Pressure (up to 10 bar)
- Electrical work (Joules)
- High frequency for electrosurgery (up to 10 MHz)
- Weight (mg / g)
- Flow rate (ml/h)
- Temperature medical (YSI400/YSI700)
- Time (ms / BPM)

Note: Further, non-accredited quantities within the scope of a mixed calibration are added as factory calibration in the appendix of the DAkkS calibration certificate and are permissible here

Deutsche Akkroditierungsstelle	
Deutsche Akkreditierungsstelle	GmbH
Beliehene gemäß § 8 Absatz 1 AkkötelleG LV.m. § 1 Unterzeichnerin der Multilateralen Abkommen von EA, ILAC und IAF zur gegenzeitigen Anerkennung	
Akkreditierung	
Die Deutsche Akkreditierungsstelle GmbH bestätigt h	iermit, dass das Kalibrierlaboratorium
GMC-I Service GmbH Beuthener Straße 41, 90471 Nürnberg	
die Kompetenz nach DIN EN ISO/IEC 17025-2018 bes durchzuführen:	tzt, Kalibrierungen in folgenden Bereichen
Dektrische Messgevällen Gleichstrem und Nockerfrequenzmessgrvällen Gleichstremstärke Wechselstremstärke Gleichstremstärke Gleichstremstärke Gleichstremstärke Gleichstremstärt ekktrische Leistung Kapazilitit	Thermodynamische Messgrößen Temparaternessgrößen – Widerstandisthermoneter – Thermopaare, Thermoelemente – Temperaternesigegreöte und – simulatoren – Dierkatanzigende Thermometer – Temperatur-Transmitter, Daterlogger
Zoit und Frequenz - Frequenz	
Die Akkreditierungswissele gilt nur in Verbindung mi Akkreditierungsmammer D 4:20333-03. Sie besteht a Deckblatts und der folgenden Anlage mit Imgesamt 6	as diesem Deckblatt, der Rückseite des
Registrierungsnummer der Urkunde: D-K-20313-01-0	0
Stransberg, 24.03.1023 In July a	all Verner Kasske
Die Universite sowie Universitesterlage gebr dass Stand zum Zeitguwite das Aus Behangsberechtes der Akkedetterung ist dar Ostantante ahlvastierter Sta entrehmen, Hitges/Iwww.siekts.de/tersten/blastedask-akkeditiertare.ete	len der Deutschen Aktregitierungsmeile Ginbir (Sikkis) zu
Television of an Industry	

▲ ISO / factory calibration or DAkkS calibration?

The question is often asked when the comparatively less expensive ISO calibration and recalibration is sufficient and when a DAkkS-accredited calibration is required.

The answer to this question lies in the requirements of your company as well as the requirements of your quality management certification.

For example, the DIN EN ISO 9000 / standard requires that you calibrate your test equipment in a traceable manner. As an official certificate, a calibration certificate with DAkkS accreditation symbol unconditionally proves traceability to national and international standards and is internationally recognized. For cost reasons, however, DAkkS calibration is often not the most attractive option.

In our laboratory, all ISO calibrations (factory calibrations) are also traceable to national standards and the calibration procedures usually do not differ or differ only slightly from the DAkkS-accredited procedures. Thus, our ISO calibrations offer a more cost-effective, but yet high-quality alternative to DAkkS calibration.

Read more about the topic in our FAQs.

GMC-I SERVICE GMBH OUR INDIVIDUAL, ALL-ROUND CAREFREE PACKAGES

Individual service agreements

Put together your personal all-round carefree service package according to your needs:

- Keeping live cycle costs under control right from the start, even with new purchases
- Prioritized processing and turnaround times of your orders
- Define calibrations and intervals (incl. calibration reminders and certificates)
- Repairs and adjustment (of GOSSEN METRAWATT products)
- Spare parts service
- COME & GO Service (immediate replacement of the device due for service)
- Firmware updates and device upgrades
- Individual, technical consulting and ongoing support for your processes
- Your entry into digitization with IZYCHECK.IQ our cloud application for your optimal order, devices and document management



GOSSEN METRAWATT

CAMILLE BAUER

You need something beyond that? Contact us we can make almost anything possible!



More information here

© BY GMC-INSTRUMENTS







METRACHECK PROFITEST / SECUTEST

Your all-round carefree service package with a term of 24 / 36 / 48 / 60 months

▲ With METRACHECK 24 / 36 / 48 / 60 you ensure that your device always remains in a fully functional condition. The term of the package always begins on the date of purchase of the associated or returned measuring and testing device.

Your advantages

- Time savings thanks to prioritized throughput times
- Less downtime
- No cost approvals necessary
- Legal certainty & compliance with standards
- Investment & planning security
- Extension of the device service life
- Test equipment management & calibration reminder for your measuring device
- Compliance with manufacturer specifications by authorized service partners



GMC-I SERVICE GMBH OUR INDIVIDUAL, ALL-ROUND CAREFREE PACKAGES

Instant Exchange Service "COME & GO

Minimize your downtime and stay up and running almost continuously.

You have a predefined replacement pool of test equipment in stock.

If you send in a device for repair or calibration, we will send you the replacement device as quickly as possible - depending on the country and customs processing.

The repaired device is then added back to the exchange pool and used again as an immediate exchange device the next time.

The cost of the service depends on the type of test equipment (device-specific fixed price) and the number of units in your pool.



GOSSEN METRAWATT

Calibration:

depending on type - see price list. Receiving inspection report 50% of the calibration price.

Repairs:

Depending on effort - prices on request and by cost estimate. Price information and cost estimates can be obtained from our order processing department.

Meter calibration:

depending on type - see price list. Discounts are possible depending on the number of pieces!

Individual service agreement & METRA CHECK warranty extension:

Device and quantity dependent - prices on request.



GOSSEN METRAWATT

CAMILLE BALIER

GMC-I SERVICE GMBH IZYCHECK.IQ - CLOUD-BASED ORDER, DEVICE & DOCUMENT MANAGEMENT





FOR A PROFESSIONAL, SECURE AND TIME-TO-DATE ORDER AND INSPECTION MANAGEMENT

- All test equipment incl. order status in real time at a glance
- **Technical profile** of the measuring device (serial number, firmware / software version, etc.)
- Detailed view of each individual piece of test equipment and status
- Email reminder and management of upcoming calibrations
- Device overview for your personal LifeCycle Management
- Immediate and legally compliant provision of calibration records
- Instant and legally compliant document management and archiving
- Archiving and history of all calibration certificates and verifications
- No need to invest in expensive IT or software installation Access is simple and fast via the web browser
- Full cost control and data security



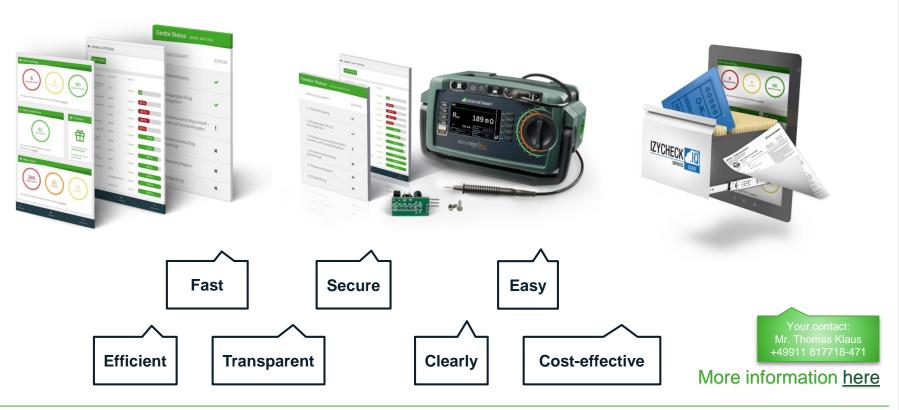
GOSSEN METRAWATT

CAMILLE BALIER

More information & free trial here

GMC-I SERVICE GMBH IZYCHECK.IQ - CLOUD-BASED ORDER, DEVICE & DOCUMENT MANAGEMENT





GMC-I SERVICE GMBH HOMEPAGE, ORDER DOCUMENT & PRICE LISTS



LINK: WWW.GMCI-SERVICE.COM/



INTU' I OCTIVILE CHINDTI ME I SERVEE SMEH - YOUR RELARCE PARTNER FOR CAURATION AND REPAR OF YOUR MEASURING AND TESTING RENORE IS GME (Service Cittle), the abec sales service company of the GME INSTRUMENT'S group, with our services

GOODS ACCOMPANYING DOCUMENT

GMC-L SERVICE	GOSSEN METRAWAT
	CAMILLE BAUER
Goods accompanying document (optional	0
	se order! Please clarify in advance whether you need to trigger an official order
	indication of the order no.), otherwise we cannot process your order. If you do not
	tter (e.g. delivery bill) is sufficient. If you do not have an internal accompanying letter, our
goods accompanying paper can be filled in optionally.	Please enclose any accompanying letter with your shipment.
Delivery address customer	Billing address customer (if deviating)
Company	Company
Department	Department
Contact person	Contact person
Street	Street
Country, Zip code, Location	Country, Zip code, Location
Telephone	Telephone
E-Mai	E-Mail
Customer no. (if known)	Customer no. (if known)
Order no.	Order no.
VATIO	VAT ID
Self pickup (karre, Telephone)	
Details of the 1. product	
Product / Model	Serial no. (if known)
Reason for sending & other	dates in the second
The second	
Onder datalle	
Order details	
Calibration (ncl. Certificate) / desired interval (n yes	
Calibration (ncl. Certificate) / desired interval (in yes Incoming calibration protocol (extra costs)	Repair order (error description required)
Calibration (ncl. Certificate) / desired interval (n yes	
Calibration (ncl. Certificate) / desired interval (in yes Incoming calibration protocol (extra costs)	Repair order (error description required)
Calibration (ncl. Cartificate) / desired interval (in yes Incoming calibration protocol (extra costs) Firmware-Upgrade / Software-Update	Repair order (error description required) Repair up to € immediately
Calibration (nd. Certificate) / desired interval (n yes incoming calibration protocol (estra costs) Firmware-Upgrade / Software-Update Request rental device	Repair order (error description required) Repair up to € immediately
Calibration (nd. Certificalit) / desired interval (n ym Incoming calibration protocol (otra costi) Firmware-Upgrade / Software-Update Request rental device Details of the 2. product	Repair order (encr description required) Repair up to Elemendiately Werrantly (attach proof of purchase)
Calibration (incl. Certicular) / desired interval (in you to coming calibration pretocol indica conti) Fireman-Vapade / Software-Update Request rental device Details of the 2. product Product / Model	Repair order (error description required) Repair up to € immediately
Calibration (nd. Certificalit) / desired interval (n ym Incoming calibration protocol (otra costi) Firmware-Upgrade / Software-Update Request rental device Details of the 2. product	Repair order (encr description required) Repair up to Elemendiately Werrantly (attach proof of purchase)
Calibration (incl. Certicular) / desired interval (in you to coming calibration pretocol indica conti) Fireman-Vapade / Software-Update Request rental device Details of the 2. product Product / Model	Repair order (encr description required) Repair up to Elemendiately Werrantly (attach proof of purchase)
Calibration (incl. Certicular) / desired interval (in you to coming calibration pretocol indica conti) Fireman-Vapade / Software-Update Request rental device Details of the 2. product Product / Model	Repair order (encr description required) Repair up to Elemendiately Werrantly (attach proof of purchase)
Calibration Jes. Certificani / desined internal (in year interning calibration protocol (onto cotti) Personano-Update Schwarz-Update Details of the 2, product Product / Model Reason for sending & other	Repair der für und dunchlich magnetis Repair der für und dunchlich magnetis Repair te hum- Remethankty Remethankty Remethankty Serlar no. off known)
Calibration (six Carifland / desired interval (r) yes browning calibration proboding (sinto carifi) Premises-Topolar / Schwarz-Opdate Premises-Topolar / Schwarz-Opdate Padact / Model Recent or androg & other Order obtails	Repair der für und dunchlich magnetis Repair der für und dunchlich magnetis Repair te hum- Remethankty Remethankty Remethankty Serlar no. off known)
Collination particular (active) of the original oris original original original original original original original	Repair deter (and concision required) Repair to the Remethative Remethati
Collection and Center of A sended Internal is yo bicoming collections periode (into collection) Premare-logandar / Saftware-logate Request restal device Prehat of the 2 product Pacific / Model Reamon for acting a collection of the collection Coder data Coder data Coder data Premare-logade / Software-logate	Papair before (more decrybin required) Regiver to bio
Collination particular (active) of the original oris original original original original original original original	Repair deter (and concision required) Repair to the Remethative Remethati
California min Centeur / Aeimed Hermit In ye bioming california period initio california Premare-Upgada / Software-Update Premare-Upgada / Software-Update Premare-Upgada / Software-Update Packal / Modil Reacon for each galaxies Order details California (not: Centical) / desired Interval (n ye Interving california (not: Centical) / desired Interval (n ye Interving california (not: Centical) / desired Interval (n ye Interving california (not: Centical) / desired Interval (n ye	Repair der finn deutrolen regaled Repair der finn deutrolen regaled Repair de barr Remedinkty Wernerk planch pool of purchase Sond ro. () known) Cost estimate Repair de barr Remedinkty Wernerk planch pool of purchase
Glabodion situ Cartinuar (a devide historial of biconiary calculation parkool historia devide biconiary calculation parkool historia devide Program Francisco (Cartinova) (Cartino	Repair before invo description required Repair be for description required Repair be for description required Repair deter (intro descripti
Californian set Centeur / Animal In year teaming californian probed instruction Terman-Oppoint / Schwar-Opdat Repeat result device Details of the 2_product Product / Node Repeat result device Order details Californian (on Centeur / device device) Repeat result device Repeat result	
Glabodion shu Cartour, if eached heteroid by Cooking Glabodion photod hinds cartour is been been been been been been been bee	Repair der für ord durchtellen regardet Repair te für durchtellen regardet Repair te für durchtellen Serluf no. (ff koom) Serl
Glabodion shu Cartour, if eached heteroid by Cooking Glabodion photod hinds cartour is been been been been been been been bee	Repair der für ord durchtellen regardet Repair te für durchtellen regardet Repair te für durchtellen Serluf no. (ff koom) Serl
Glabodion shu Cartour, if eached heteroid by Cooking Glabodion photod hinds cartour is been been been been been been been bee	Repair de la mondencipio regandi Repair de la mondenita
Glabodion shu Cartour, if eached heteroid by Cooking Glabodion photod hinds cartour is been been been been been been been bee	Repair de la mod decretion regand de la modelina de la modeli

CALIBRATION PRICE LIST



SPARE PARTS PRICE LIST

GMC-I SERVICE GMBH

CURRENT PRICE LIST SPARE PARTS

VERIFICATION PRICE LIST

GMC-I SERVICE GMBH

CURRENT PRICE LIST ENERGY METER CALIBRATION

GMC INSTRUMENTS

PRÄSENTATION | THEMA | 12.07.2022 | SEITE 22

© BY GMC-INSTRUMENTS