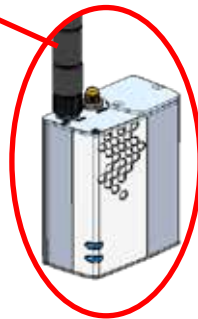# JofraCloud

Remote Calibrator Operation
for RTC and PTC Series

Go Remote with JofraCloud

Remote Reading and Setpoint Entry

AMETEK has developed a new way to perform remote reading and setting of our temperature calibrators over an unlimited distance. The unit is a Gateway that has transmission coverage equal to your smartphone.

The data is presented as a copy of the display, and can be viewed at jofracloud.com. The webpage is accessible via a web browser on any device (PC, lab top, tablet, smartphone).

The 3G Gateway can be attached to any RTC or PTC Calibrator and reads data from the calibrator every 2 seconds.

Making Tasks Easier, Faster, and Documented

Remote Reading of the Calibrator's Status – A real time copy of the calibrator display is shown on your device.

- **Remote Setpoints** – Select a new temperature setpoint on your calibrator using your device.
- **Documented Stability Reporting** – When the calibrator reaches the set temperature and gains stability, an emailed report will be send to your controlling device.
- **On Demand Reporting** – Generate a timestamped emailed report at any time.
- When using JofraCloud from your PC, you can get an audible notification when the calibrator reaches stability.
- Control and communicate up to 5 calibrators simultaneously with a single Gateway.
- Print a timestamped PDF as documentation.

Efficient and Time saving

Loop or Line Calibration - Section A

Calibration of sensor loops or lines, with a distant readout on a control panel or in a control room, can now be done by only one technician. Once set up, the technician can control the set points, read the UUT values on a SCADA in the control room and take the calibrator reference readout remotely, all at the same time.

Difficult or Dangerous Locations - Section D

JofraCloud can improve work safety and save time when calibrating sensors in difficult or dangerous locations. For example, when calibrating sensors on the top of a fermenter tank or a smoke stack, you only need to climb the latter for set up and finish. All set points in between and readings can be done remotely on your device.

Restricted Areas - Section B and C

Clean rooms often require a change of clothes to enter or exit the area. Rather than entering the area every time a reading or new set point is needed, simply take the reading and set a new temperature remotely with JofraCloud. Stability detection and alerts further maximize efficiency.

JofraCloud

A: Laboratory and Control Room
B: Cleanroom
C: Freeze Drying
D: Production Hall

Multiple Calibrations on Site

During a process shutdown time is of essence. Often multiple sensors need to be calibrated in different locations. Being in the right place at the right time is made much easier by remotely monitoring the status of up to 5 calibrators simultaneously on your mobile device. No need to wait for the calibrator to reach a set point or cool to ambient, simply receive a notification when ready.

Automated Calibration

Start an auto-step calibration on your calibrator and go to the control room to monitor both the UUT and reference temperature values. When the last email report is received, simply print out the UUT values from the SCADA system and compare the timestamped calibration values. Jofra-Cloud reduces your time consumption to an absolute minimum, and allows a single technician to do the job of two.

Increase Capacity and Save Time

Save time on heating and cooling times by setting the first temperature when leaving home in the morning and the calibrator will be ready for the first calibration point on your arrival. Or, set the temperature prior to leaving the office, and the report can be ready for you in the morning. This is especially useful at very low temperatures when calibrating sensors for super freezers and similar.

Safe and Secure

Data Security

- All data is encrypted using standard https protocol.
- The Cloud service (AWS*) does not store any data.
- Your personal password is encrypted in the database.

Operational Security

The first time you add a calibrator to JofraCloud you need physical access to the calibrator to get ownership in JofraCloud. You will receive a random set temperature (like a password) that you enter directly into the calibrator to link the two units.

When the calibrator is running in remote control the keyboard is disabled, preventing unintentional settings.

Easy Data Transmission

- The Gateway is delivered with a Smart SIM card that will work in the region of your choise.
- Network selection is based on the best available local network and is not limited to a predefined list.
- The Gateway comes ready to use and no installation is required.
- The Smart SIM card in the Gateway monitors data connections, re-establishing connectivity when required.
- Data usage on the SIM gives approximately 100 hours of operating time per month.
- Data is sent from the gateway to the device every 2 seconds.
- The 12 month subscription is activated upon shipment.

* Amazon Web Services

Specifications

Gateway	
Power Consumption	Idle mode: <1 W Max: 7.2 W
Power Voltage	4.75 V to 32 V
Ethernet	10/100 Base-T RJ45
USB	USB V2.0 Micro-B connector (for configuration)
Weight	158 g
Humidity	95% relative humidity over a temperature range of 20 - 60°C
Operational Temperature	-30°C to 75°C
SIM Card	SMART

Power Supply	
Input Voltage	90 to 264 VAC
Input Frequency	47 to 63 Hz
Output Voltage	12.0 VDC
Output Current	1.5 A
Humidity	10% ~ 90%
Operational Temperature	0°C ~ 40°C

Subscription	
Data Usage	100Mb/month ~ 100 hours/month
Periode	12 months - Renewable
Data Transmit Frequency	Complete data package sent every 2 seconds
Geographical Coverage	See scheme

Region	Country
EU+	Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, French Guiana, Germany, Gibraltar, Greece, Guadeloupe, Holy See (Vatican City State), Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Martinique, Mayotte, Monaco, Netherland, Norway, Poland, Portugal, Reunion, Romania, Saint Pierre and Miquelon, San Marino, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom
Rest of Europe + CIS	Albania, Armenia, Azerbaijan, Belarus, Faroe Islands, Georgia, Greenland, Isle of Man, Jersey, Kazakhstan, Macedonia, Moldova, Montenegro, Serbia, Tajikistan, Turkey, Ukraine, Uzbekistan, Åland Island
United States	United States
Canada	Canada
Latin America 1	Anguilla, Antigua and Barbuda, Argentina, Barbados, Belize, Bermuda, Brazil, Cayman Islands, Dominica, Grenada, Haiti, Jamaica, Mexico, Paraguay, Puerto Rico, Saint Barthelemy, Saint Kitts and Nevis, Saint Lucia, Saint Martin (French part), Saint Vincent and the Grenadines, Trinidad and Tobago, Turks and Caicos Islands
Russia	Russia
Asia 1	Afghanistan, Australia, Bangladesh, China, Hong Kong, India, Indonesia, Japan, South Korea, Laos, Malaysia, New Zealand, Pakistan, Philippines, Singapore, Taiwan
Asia 2	Brunei Darussalam, Fiji, Macao, Myanmar, Papua New Guinea, Sri Lanka, Thailand
Middle East	Bahrain, Iran, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, United Arab Emirates
Africa 1	Algeria, Egypt, Ghana, Kenya, Morocco, Nigeria, South Africa

All other countries are not currently supported.

Ordering Information

Base Model Number	
JC	JofraCloud

GAT		3G Gateway for JofraCloud incl. 1 year data usage
SUB		1 year data subscription for JofraCloud

Data usage for region (SIM Card) - See previous scheme	
A	EU+
B	Rest of Europe + CIS
C	United States
D	Canada
E	Latin America 1
F	Russia
G	Asia 1
H	Asia 2
I	Middle East
J	Africa 1

JC GAT C

JofraCloud, 3G Gateway for JofraCloud incl. 1 year regional data usage in United States

Standard Delivery

- Gateway with bracket and SIM card
- Antenna
- Power supply
- Ethernet cables 25 and 50 cm
- Manual on USB stick

Option

- 1 year regional data usage subscription

! Important Note

The firmware on the calibrator shall be 1.0.1564 or newer.

If the firmware is older; contact Ametek or your local distributor to get an upgraded firmware before connecting the JOFRACLOUD gateway

---

United Kingdom
Tel +44 (0) 1243 833 302
caluk.sales@ametek.com

USA, Florida
Tel +1 (800) 527 9999
cal.info@ametek.com

USA, California *
Tel +1 (800) 444 1850
crystal@ametek.com

India
Tel +91 22 2836 4750
jofra@ametek.com

Singapore
Tel +65 6484 2388
jofra@ametek.com

China, Shanghai
Tel +86 5868 5111
jofra-china.sales@ametek.com.cn

China, Beijing
Tel +86 10 8526 2111-19/24/25
jofra-china.sales@ametek.com.cn

France
Tel +33 (0) 30 68 89 40
general.lloyd-instruments@ametek.fr

Germany
Tel +49 (0) 2159 9136 510
info.mct-de@ametek.de

Denmark *
Tel +45 4816 8000
jofra@ametek.com

* ISO 17025 accredited calibration lab.

SS-JofraCloud Issue 1801

JOFRA® calibration

**AMETEK®
SENSORS, TEST & CALIBRATION**