# Korea Laboratory Accreditation Scheme

# CERTIFICATE OF ACCREDITATION

# FineCom SE Co.,Ltd

Accreditation No.: KC15-306

Corporation Registration No.: 131111-0249176

Address of Laboratory: FineComSE Building, 7-10, Jungang-daero 332 beon-gil

Dong-gu Busan, Republic of Korea

Date of Initial Accreditation: October 05, 2015.

Validity of Accreditation: October 05, 2023. ~ October 04, 2027.

Scope of Accreditation: Attached Annex

Date of issue: August 04, 2023.

This calibration laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

**Korea Laboratory Accreditation Scheme** 

#### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 & KS Q ISO/IEC 17025:2017

FineCom SE Co.,Ltd

7-10, Jungang-daero332beon-gil, Dong-gu, Busan, Republic of Korea Phone: 051)465-8145, Fax: 051)465-8144, e-mail: kolas@finecomse.com

CALIBRATION

Valid To : Oct. 4, 2027. Accreditation No : KC15-306

In recognition of the successful completion of the KOLAS evaluation process, accreditation is granted to this laboratory to perform the following calibrations

Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site
203. To	rque							
	Torque wrenchs / drivers	N						
901. Ch	emical analysis							
90101	Breath alcohol analyzers	N						
90103	Gas analyzers	Y						

### Note

- 1. This laboratory provides calibration services in permanent standard laboratory and at on-site.
- 2. Laboratory conducts on-site calibration should meet requirements of KOLAS-SR-007.
- 3. On-site calibration is allowed to items with marking 'Y', not allowed to items with marking 'N'.
- 4. Measurement uncertainty normally is quoted as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of k=2. It expresses the lowest uncertainty of measurement that can be provided by accredited calbration laboratories in normal conditions.
- 5. Due to the calibration environment such as reference standards or customers' facilities, it is note that uncertainty of measurement on a calibration certificate may be expressed larger than measurement uncertainty on scope of accreditation in general.

Accreditation No. : KC15-306

## 203. Torque

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Torque wrenches/drivers	20303			Torque Tester
		(10 ~ 100) N·m	$1.2 \times 10^{-2}$	/FCI-203-01
		(100 ~ 500) N·m	$8.0 \times 10^{-3}$	
		(500 ~ 2 000) N·m	$1.2 \times 10^{-2}$	

### 901. Chemical analysis

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Breath alcohol analyzers	90101			Standard Gas
C <sub>2</sub> H <sub>5</sub> OH		78.6 μmol/mol		/FCI-901-02
		(0.030 0 % BAC)	0.000 9 % BAC	
		219.6 µmol/mol		
		(0.080 0 % BAC)	0.001 7 % BAC	
Gas analyzers	90103			Standard Gas
CH <sub>4</sub>		2.00 cmo1/mo1	0.05 cmol/mol	/FCI-901-01
i -C <sub>4</sub> H <sub>10</sub>		0.800 cmol/mol	0.020 cmol/mol	
$O_2$		18.0 cmol/mol	0.4 cmol/mol	
CO		100.0 μmol/mol	2.2 μmol/mol	
$\mathrm{H}_2\mathrm{S}$		25.0 μ mol/mol	1.2 μmol/mol	
$CO_2$		2.00 cmol/mol	0.03 cmol/mol	
i –C <sub>4</sub> H <sub>8</sub>		100.0 μmol/mol	2.0 μmol/mol	
NH <sub>3</sub>		50.0 μ mol/mol	2.5 μmol/mol	
$H_2$		500 μmol/mol	7 μmol/mol	
		1.60 cmol/mol	0.04 cmol/mol	