

Annex to declaration of accreditation (scope of accreditation)  
 Normative document: EN ISO/IEC 17025:2005  
 Registration number: **K 159**

of **Siemens Industry Software B.V.**  
**Digital Factory Division, Product Lifecycle Management, Simulations and Test Solutions**

This annex is valid from: **06-12-2017** to **01-08-2020**

Replaces annex dated: **26-10-2016**

**Location(s) where activities are performed under accreditation**

**Head Office**

Weidehek 53  
 4824 AT  
 Breda  
 The Netherlands

Location	Abbreviation/ location code
Headoffice Weidehek 53 4824 AT Breda The Netherlands	BR

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
LF 0 0	DC/LF electricity				
LF 1 0	Direct voltage			Generating. U stands for generated DC voltage	BR
	U ≤ 0.25 V		22 μV		
	0.25 V < U ≤ 4 V		220 μV		
	4 V < U ≤ 10 V		460 μV		
LF 1 0	Direct voltage			Measuring the internal reference generator with a DMM. U stands for generated DC voltage	BR

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas  
 Director of Operations

<sup>1</sup> Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95%, in a given measurement point or measurement range. Measurement uncertainty, *U*, is calculated according to EA-4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

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HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
	$U \leq 0.25 \text{ V}$		22 $\mu\text{V}$		
	$0.25 \text{ V} < U \leq 4 \text{ V}$		220 $\mu\text{V}$		
LF 1 0	Direct voltage			Measuring residual offset. IR stands for "Input Range"	BR
	$IR \leq 100 \text{ mV}$		0.6 $\mu\text{V}$	Bridge channels	
	$100 \text{ mV} < IR \leq 316 \text{ mV}$		1.2 $\mu\text{V}$	Bridge channels	
	$316 \text{ mV} < IR \leq 1 \text{ V}$		2.2 $\mu\text{V}$	Bridge channels	
	$1 \text{ V} < IR \leq 3.16 \text{ V}$		8.8 $\mu\text{V}$	Bridge channels	
	$3.16 \text{ V} < IR \leq 10 \text{ V}$		21 $\mu\text{V}$	Bridge channels	
	$IR \leq 316 \text{ mV}$		4.8 $\mu\text{V}$	V/ICP channels	
	$316 \text{ mV} < IR \leq 1 \text{ V}$		5.2 $\mu\text{V}$	V/ICP channels	
	$1 \text{ V} < IR \leq 3.16 \text{ V}$		8.0 $\mu\text{V}$	V/ICP channels	
	$3.16 \text{ V} < IR \leq 10 \text{ V}$		21 $\mu\text{V}$	V/ICP channels	
LF 3 0	Alternating voltage			Measuring amplitude accuracy. IR stands for "Input Range"	BR
	$IR \leq 100 \text{ mV}$	1000 Hz	48 $\mu\text{V}$	Bridge channels	
	$100 \text{ mV} < IR \leq 316 \text{ mV}$	1000 Hz	66 $\mu\text{V}$	V/ICP and bridge channels	
	$316 \text{ mV} < IR \leq 1 \text{ V}$	1000 Hz	120 $\mu\text{V}$	V/ICP and bridge channels	
	$1 \text{ V} < IR \leq 3.16 \text{ V}$	1000 Hz	310 $\mu\text{V}$	V/ICP and bridge channels	
	$3.16 \text{ V} < IR \leq 10 \text{ V}$	1000 Hz	530 $\mu\text{V}$	V/ICP and bridge channels	
LF 3 0	Alternating charge			Measuring amplitude accuracy. Using internal capacitor for voltage to charge conversion. IR stands for "Input Range"	BR
	$IR \leq 316 \text{ pC}$	1000 Hz	3.0 pC	Charge input channels	
	$316 \text{ pC} < IR \leq 1 \text{ nC}$	1000 Hz	9.2 pC	Charge input channels	
	$1 \text{ nC} < IR \leq 3.16 \text{ nC}$	1000 Hz	30 pC	Charge input channels	

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HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
	3.16 nC < IR ≤ 10 nC	1000 Hz	96 pC	Charge input channels	
LF 3 0	Noise			Measuring RMS noise and spurious free floor - voltage frequency domain measurement. IR stands for "Input Range"	BR
	IR ≤ 100 mV	20 Hz ~ 20 kHz bandwidth	28 pV	Bridge channels	
	100 mV < IR ≤ 316 mV	20 Hz ~ 20 kHz bandwidth	86 pV	Bridge channels	
	316 mV < IR ≤ 1V	20 Hz ~ 20 kHz bandwidth	280 pV	Bridge channels	
	1 V < IR ≤ 3.16 V	20 Hz ~ 20 kHz bandwidth	860 pV	Bridge channels	
	3.16 V < IR ≤ 10 V	20 Hz ~ 20 kHz bandwidth	3.0 nV	Bridge channels	
	IR ≤ 316 mV	20 Hz ~ 20 kHz bandwidth	2.0 nV	V/ICP channels	
	316 mV < IR ≤ 1 V	20 Hz ~ 20 kHz bandwidth	2.0 nV	V/ICP channels	
	1 V < IR ≤ 3.16 V	20 Hz ~ 20 kHz bandwidth	2.1 nV	V/ICP channels	
	3.16 V < IR ≤ 10 V	20 Hz ~ 20 kHz bandwidth	3.4 nV	V/ICP channels	
LF 3 0	Noise			Measuring RMS noise and spurious free floor - charge frequency domain measurement, using internal capacitor for voltage to charge conversion. IR stands for "Input Range"	BR
	IR ≤ 316 pC	20 Hz ~ 20 kHz bandwidth	0.1 aC	Charge input channels	
	316 pC < IR ≤ 1 nC	20 Hz ~ 20 kHz bandwidth	0.3 aC	Charge input channels	

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	1 nC < IR ≤ 3.16 nC	20 Hz ~ 20 kHz bandwidth	0.9 aC	Charge input channels	
	3.16 nC < IR ≤ 10 nC	20 Hz ~ 20 kHz bandwidth	2.8 aC	Charge input channels	
LF 3 0	Crosstalk (voltage)			Measuring interchannel crosstalk. IR stands for "Input Range"	BR
	IR ≤ 100 mV	1.5 kHz ~ 15 kHz	60 nV	Bridge channels	
	100 mV < IR ≤ 316 mV	1.5 kHz ~ 15 kHz	68 nV	V/ICP and bridge channels	
	316 mV < IR ≤ 1 V	1.5 kHz ~ 15 kHz	150 nV	V/ICP and bridge channels	
	1 V < IR ≤ 3.16 V	1.5 kHz ~ 15 kHz	0.4 μV	V/ICP and bridge channels	
	3.16 V < IR ≤ 10 V	1.5 kHz ~ 15 kHz	1.3 μV	V/ICP and bridge channels	
LF 3 0	Crosstalk (charge)			Measuring interchannel crosstalk. Using internal capacitor for voltage to charge conversion. IR stands for "Input Range"	BR
	IR ≤ 316 pC	1.5 kHz ~ 15 kHz	68 aC	Charge input channels	
	316 pC < IR ≤ 1 nC	1.5 kHz ~ 15 kHz	150 aC	Charge input channels	
	1 nC < IR ≤ 3.16 nC	1.5 kHz ~ 15 kHz	0.4 fC	Charge input channels	
	3.16 nC < IR ≤ 10 nC	1.5 kHz ~ 15 kHz	1.3 fC	Charge input channels	
LF 3 0	Distortion (voltage)			Measuring harmonics. IR stands for "Input Range"	BR
	IR ≤ 100 mV	993.75 Hz	120 nV	Bridge channels	
	100 mV < IR ≤ 316 mV	993.75 Hz	140 nV	V/ICP and bridge channels	
	316 mV < IR ≤ 1 V	993.75 Hz	290 nV	V/ICP and bridge channels	
	1 V < IR ≤ 3.16 V	993.75 Hz	0.8 μV	V/ICP and bridge channels	
	3.16 V < IR ≤ 10 V	993.75 Hz	2.6 μV	V/ICP and bridge channels	

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LF 3 0	Distortion (charge)			Measuring harmonics. Using internal capacitor for voltage to charge conversion. IR stands for "Input Range"	BR
	IR ≤ 316 pC	993.75 Hz	140 aC	Charge input channels	
	316 pC < IR ≤ 1 nC	993.75 Hz	290 aC	Charge input channels	
	1 nC < IR ≤ 3.16 nC	993.75 Hz	0.8 fC	Charge input channels	
	3.16 nC < IR ≤ 10 nC	993.75 Hz	2.6 fC	Charge input channels	
TF 2 1	Frequency	800 Hz	0.1 Hz	Measuring the internal reference frequency accuracy, representing system clock accuracy	BR

Remark(s):

Calibration of LMS SCADAS signal conditioning and data acquisition equipment.