

of **Siemens Industry Software B.V.**

This annex is valid from: **16-07-2020 to 01-08-2024**

Replaces annex dated: **16-10-2019**

Location(s) where activities are performed under accreditation

Head Office

Weidehek 53
 4824 AT
 Breda
 The Netherlands

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

HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
LF 0 0	DC/LF electricity				BR
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
	U ≤ 0.25 V		22 μV		

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

J.A.W.M. de Haas

¹ 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 ¹	Remarks	Location
	0.25 V < U ≤ 4 V		220 µV		
LF 1 0	Direct voltage			Measuring residual offset. IR stands for "Input Range"	BR
	IR ≤ 100 mV		0.6 µV	Bridge channels	
	100 mV < IR ≤ 316 mV		1.2 µV	Bridge channels	
	316 mV < IR ≤ 1 V		2.2 µV	Bridge channels	
	1 V < IR ≤ 3.16 V		8.8 µV	Bridge channels	
	3.16 V < IR ≤ 10 V		21 µV	Bridge channels	
	IR ≤ 316 mV		4.8 µV	V/ICP channels	
	316 mV < IR ≤ 1 V		5.2 µV	V/ICP channels	
	1 V < IR ≤ 3.16 V		8.0 µV	V/ICP channels	
	3.16 V < IR ≤ 10 V		21 µV	V/ICP channels	
LF 3 0	Alternating voltage			Measuring amplitude accuracy. IR stands for "Input Range"	BR
	IR ≤ 100 mV	1000 Hz	48 µV	Bridge channels	
	100 mV < IR ≤ 316 mV	1000 Hz	66 µV	V/ICP and bridge channels	
	316 mV < IR ≤ 1 V	1000 Hz	120 µV	V/ICP and bridge channels	
	1 V < IR ≤ 3.16 V	1000 Hz	310 µV	V/ICP and bridge channels	
	3.16 V < IR ≤ 10 V	1000 Hz	530 µV	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 ≤ 316 pC	1000 Hz	3.0 pC	Charge input channels	
	316 pC < IR ≤ 1 nC	1000 Hz	9.2 pC	Charge input channels	
	1 nC < IR ≤ 3.16 nC	1000 Hz	30 pC	Charge input channels	
	3.16 nC < IR ≤ 10 nC	1000 Hz	96 pC	Charge input channels	

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
LF 3 0	Noise			Measuring RMS noise and spurious free floor - voltage frequency domain measurement. IR stands for "Input Range"	BR
	$IR \leq 100 \text{ mV}$	20 Hz ~ 20 kHz bandwidth	28 pV	Bridge channels	
	$100 \text{ mV} < IR \leq 316 \text{ mV}$	20 Hz ~ 20 kHz bandwidth	86 pV	Bridge channels	
	$316 \text{ mV} < IR \leq 1 \text{ V}$	20 Hz ~ 20 kHz bandwidth	280 pV	Bridge channels	
	$1 \text{ V} < IR \leq 3.16 \text{ V}$	20 Hz ~ 20 kHz bandwidth	860 pV	Bridge channels	
	$3.16 \text{ V} < IR \leq 10 \text{ V}$	20 Hz ~ 20 kHz bandwidth	3.0 nV	Bridge channels	
	$IR \leq 316 \text{ mV}$	20 Hz ~ 20 kHz bandwidth	2.0 nV	V/ICP channels	
	$316 \text{ mV} < IR \leq 1 \text{ V}$	20 Hz ~ 20 kHz bandwidth	2.0 nV	V/ICP channels	
	$1 \text{ V} < IR \leq 3.16 \text{ V}$	20 Hz ~ 20 kHz bandwidth	2.1 nV	V/ICP channels	
	$3.16 \text{ V} < IR \leq 10 \text{ V}$	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
	$IR \leq 316 \text{ pC}$	20 Hz ~ 20 kHz bandwidth	0.1 aC	Charge input channels	
	$316 \text{ pC} < IR \leq 1 \text{ nC}$	20 Hz ~ 20 kHz bandwidth	0.3 aC	Charge input channels	
	$1 \text{ nC} < IR \leq 3.16 \text{ nC}$	20 Hz ~ 20 kHz bandwidth	0.9 aC	Charge input channels	
	$3.16 \text{ nC} < IR \leq 10 \text{ nC}$	20 Hz ~ 20 kHz bandwidth	2.8 aC	Charge input channels	

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
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	
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	

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **K 159**

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HCS code	Measured quantity, Range	Frequency	CMC¹	Remarks	Location
TF 0 0	Time and frequency				
TF 2 1	Frequency	800 Hz	0.1 Hz	Measuring the internal reference frequency accuracy, representing system clock accuracy	BR

Remark(s):

Calibration of Simcenter SCADAS signal conditioning and data acquisition equipment.