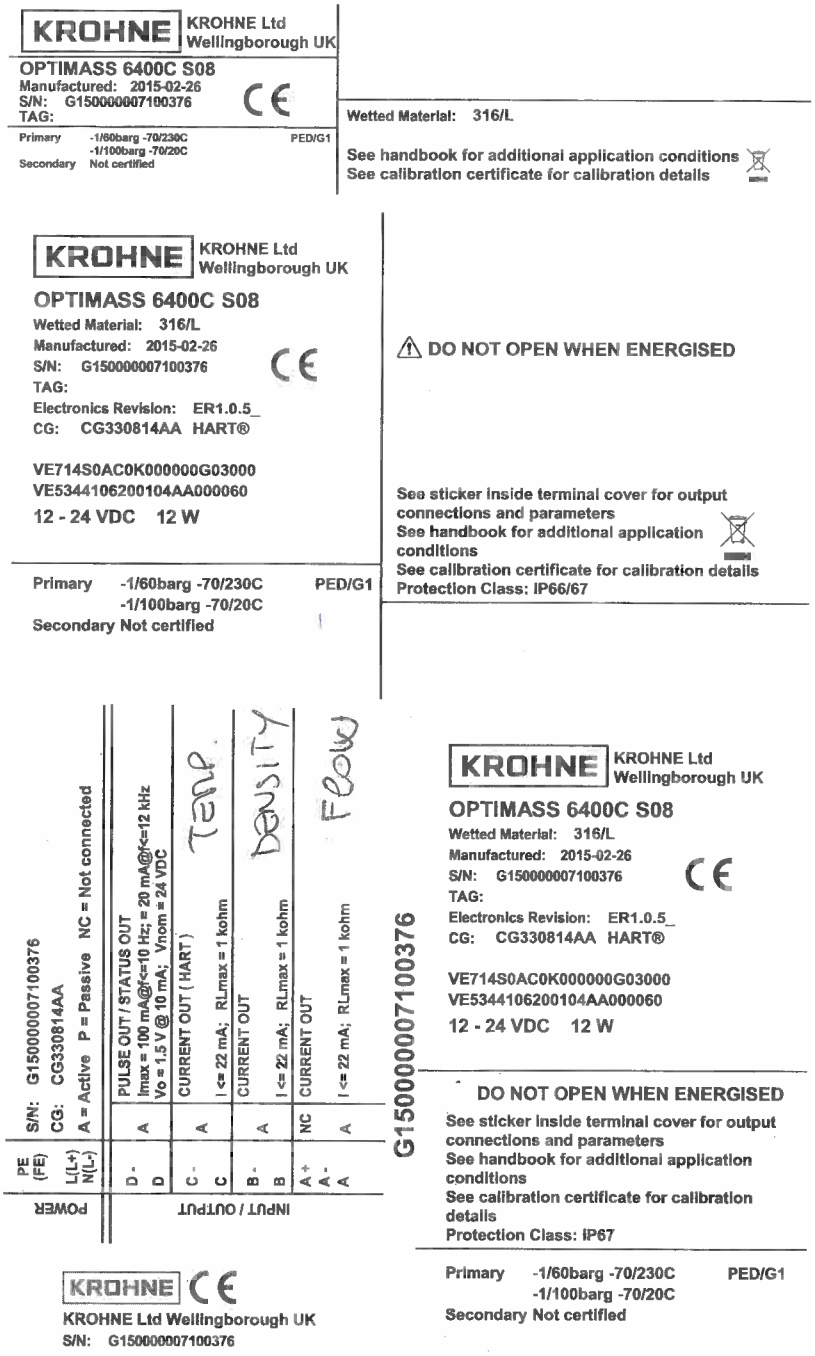

C TEMPERATURE 4 mA = 0°C 20 mA = -15°C

A FLOW 4 mA = 1,4 gr/sec 20 mA = 150 gr/s

B DENSITY 4 mA = 0 Kg/l 20 mA = 1.005 Kg/l

(1)

KROHNE

Converter Configuration – Messumformer-Konfiguration – Configuration Convertisseur

Type / Typ / Type	: OPTIMASS 6400C S08
Sales Order / VK-Auftrag / Commande de vente	: 380013011
Serial Number / Seriennummer / Numéro de série	: G150000007100376
Tag Number / Tagnummer / Repère	:

	C1.1	Zero and Offset
C1.1.1	Zero Calibration %	-0.010 %
C1.1.2	Zero Add. Offset	+0 g/s
C1.1.3	Pipe Diameter	5.60 mm
C1.1.4	Flow Correction	+0.00 %
	C1.2	Density
C1.2.2	Density Mode Sel.	Actual
	C1.3	Filters
C1.3.1	Flow Direction	Forwards
C1.3.2	Press. Supp. Time	0.0 s
C1.3.3	Press. Supp. Cutoff	0.0 %
C1.3.4	Low Flow Cutoff	0.2 %
	C1.4	System Control
C1.4.1	Function	No Action
C1.4.2	Condition	Temperature
C1.4.3	Max. Temp.	+100.0 °C
C1.4.4	Min. Temp.	+0.0 °C
	C1.5	Diagnostics
C1.5.3	2 Ph. Threshold	0
C1.5.4	Diagnosis 1	Off
C1.5.5	Diagnosis 2	Off
C1.5.7	Proc: Signal Low	Out Of Specification
C1.5.8	Proc: Signal Search	Failure
C1.5.9	Proc: Current Input	Failure
C1.5.10	Proc: 2 Phase Flow	Out Of Specification
C1.5.11	Proc: System Control	Information
C1.5.12	Config: Totaliser	Out Of Specification
C1.5.13	Config: Totaliser	Out Of Specification
C1.5.14	Electr: IO Connection	Out Of Specification
	C1.6	Information
C1.6.1	Sensor Type	OPTIMASS 6400C S08
C1.6.2	Sensor ID	1000
C1.6.3	Nominal Mass Flow	166.7 g/s
C1.6.4	Max. Allowed Temp.	+230.0 °C
C1.6.5	Min. Allowed Temp.	-70.0 °C
C1.6.6	Calibration Date	2015-02-26
C1.6.7	V No. Sensor	VE714S0AC0K000000G03000
C1.6.8	Sensor Serial No.	G150000007100376
C1.6.9	V No. Converter	VE5344106200104AA000060

(2)

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Converter Configuration – Messumformer-Konfiguration – Configuration Convertisseur

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Serial Number / Seriennummer / Numéro de série	: G150000007100376
Tag Number / Tagnummer / Repère	:

	C1.7	Flow Calibration
C1.7.1	CF1	20.4
C1.7.2	CF2	750
C1.7.3	CF3	300
C1.7.4	CF4	0
C1.7.5	CF5	3174.804
C1.7.6	CF6	-44.68655
C1.7.7	CF7	0
C1.7.8	CF8	0
C1.7.9	CF11	0
C1.7.10	CF12	-41.77522
C1.7.11	CF13	0
C1.7.12	CF14	0
C1.7.13	CF15	0
C1.7.14	CF16	0
C1.7.15	CF17	0
C1.7.16	CF18	0
C1.7.17	CF19	0
C1.7.18	CF20	0
C1.7.19	CF21	0
C1.7.20	CF22	0
C1.7.21	CF23	0
C1.7.22	CF24	0
C1.7.23	CF25	0
C1.7.24	CF26	0
C1.7.25	CF27	0
	C1.8	Density Calibration
C1.8.1	DCF1	Town Water
C1.8.2	DCF2	998.6866
C1.8.3	DCF3	1
C1.8.4	DCF4	230.305
C1.8.5	DCF5	Empty
C1.8.6	DCF6	0
C1.8.7	DCF7	1
C1.8.8	DCF8	201.873
	C2	Concentration
	C3.1	Hardware
C3.1.1	Terminals A	Current Output → PORTATA
C3.1.2	Terminals B	Current Output → DENSITA'
C3.1.3	Terminals C	Current Output TEMP.
C3.1.4	Terminals D	Pulse Output
	C3.2	Current Out A
C3.2.1	Range 0%...100%	4.0 ... 20.0 mA
C3.2.2	Extended Range	3.8 ... 20.5 mA
C3.2.3	Error Current	3.5 mA
C3.2.4	Error Condition	Failure
C3.2.5	Measurement	Mass Flow
C3.2.6	Range	+1.40 ... +150 g/s ←
C3.2.7	Polarity	Positive Polarity
C3.2.8	Limitation	-120 ... +120 %
C3.2.9	Low Flow Cutoff	0.0 ± 0.0 %
C3.2.10	Time Constant	4.0 s
C3.2.11	Special Function	Off
C3.2.15	4mA Trimming	4.0000 mA
C3.2.16	20mA Trimming	20.000 mA

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	C3.4	Current Out C → TEMPERATURA
C3.4.1	Range 0%...100%	4.0 ... 20.0 mA
C3.4.2	Extended Range	3.8 ... 20.5 mA
C3.4.3	Error Current	3.5 mA
C3.4.4	Error Condition	Failure
C3.4.5	Measurement	Temperature
C3.4.6	Range	+0.0 ... -15.0 °C ←
C3.4.7	Polarity	Absolute Value
C3.4.8	Limitation	-120 ... +120 %
C3.4.9	Low Flow Cutoff	0.0 ± 0.0 %
C3.4.10	Time Constant	4.0 s
C3.4.11	Special Function	Off
C3.4.15	4mA Trimming	4.0000 mA
C3.4.16	20mA Trimming	20.000 mA
	C3.5	Pulse Output D
C3.5.1	Pulse Shape	Symmetric
C3.5.3	Max. Pulse Rate	10000 Hz
C3.5.4	Measurement	Mass Flow
C3.5.5	Pulse Value Unit	g
C3.5.6	Value Per Pulse	1 g
C3.5.7	Polarity	Positive Polarity
C3.5.8	Low Flow Cutoff	0 ± 0 g/s
C3.5.9	Time Constant	0.0 s
C3.5.10	Invert Signal	Off
	C4.1	Totaliser 1
C4.1.1	Totaliser Function	Incremental Total
C4.1.2	Measurement	Mass Flow
C4.1.3	Low Flow Cutoff	0 ± 0 g/s
C4.1.4	Time Constant	0.0 s
C4.1.5	Preset Value	1 kg
	C4.2	Totaliser 2
C4.2.1	Totaliser Function	Incremental Total
C4.2.2	Measurement	Volume Flow
C4.2.3	Low Flow Cutoff	0 ± 0 L/h
C4.2.4	Time Constant	0.0 s
C4.2.5	Preset Value	1 L
	C4.3	Totaliser 3
C4.3.1	Totaliser Function	Incremental Total
C4.3.2	Measurement	Mass Flow
C4.3.3	Low Flow Cutoff	0 ± 0 g/s
C4.3.4	Time Constant	0.0 s
C4.3.5	Preset Value	1 kg
	C5.1	PV is
C5.1.1	Current Out C	Temperature
	C5.2	SV is
C5.2.2	HART Dynamic Var.	Volume Flow
	C5.3	TV is
C5.3.1	Current Out A	Mass Flow kg/h
	C5.4	4V is
C5.4.1	Current Out B	Density
	C6.1	Device Info
C6.1.1	Tag	
C6.1.2	V No. Sensor	VE714S0AC0K000000G03000
C6.1.3	Sensor Serial No.	G150000007100376
C6.1.4	Sensor Revision	

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Converter Configuration – Messumformer-Konfiguration – Configuration Convertisseur

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Tag Number / Tagnummer / Repère	:

	C6.3	1st Meas. Page
C6.3.1	Function	Two Lines
C6.3.2	1st Line Variable	Mass Flow
C6.3.3	Range	+0 ... +166.7 g/s
C6.3.4	Limitation	-120 ... +120 %
C6.3.5	Low Flow Cutoff	0.0 ± 0.0 %
C6.3.6	Time Constant	4.0 s
C6.3.7	1st Line Format	Automatic
C6.3.8	2nd Line Variable	Totaliser 1 Mass
C6.3.9	2nd Line Format	#X.XX
	C6.4	2nd Meas. Page
C6.4.1	Function	Three Lines
C6.4.2	1st Line Variable	Density
C6.4.3	Range	0.500 ... 2.500 kg/L
C6.4.4	Limitation	-120 ... +120 %
C6.4.5	Low Flow Cutoff	0.0 ± 0.0 %
C6.4.6	Time Constant	4.0 s
C6.4.7	1st Line Format	#X.X
C6.4.8	2nd Line Variable	Temperature
C6.4.9	2nd Line Format	Automatic
C6.4.10	3rd Line Variable	Volume Flow
C6.4.11	3rd Line Format	Automatic
	C6.5	Graphic Page
C6.5.1	Select Range	Manual
C6.5.2	Range	+0 ± 100 %
C6.5.3	Time Scale	2 min
	C6.6	Special Functions
C6.6.4	Password Quick Set	0
C6.6.5	Password Setup	0
	C6.7	Units
C6.7.1	Volume Flow	L/h
C6.7.4	Mass Flow	g/s
C6.7.7	Flow Velocity	m/s
C6.7.9	Temperature	°C
C6.7.10	Volume	L
C6.7.13	Mass	kg
C6.7.16	Density	kg/L
	C6.8	HART
C6.8.1	HART	HART On
C6.8.2	Address	0
C6.8.3	Message	HART MESSAGE
C6.8.4	Description	HART DESCRIPTOR
C6.8.5	HART long tag	Hart_Long_Tag????????????
	C6.9	Quick Setup
C6.9.1	Reset Totaliser 1	Yes
C6.9.2	Reset Totaliser 2	Yes
C6.9.3	Reset Totaliser 3	Yes
C6.9.4	Reset all Totalisers	Yes

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Calibration Certificate – Kalibrierzertifikat – Certificat d'étalonnage
DIN 55 350-18-4.2.2

Type / Typ / Type	:	OPTIMASS 6400C S08
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Serial Number / Seriennummer / Numéro de série	:	G150000007100376
Tag Number / Tagnummer / Repère	:	

Calibration Method / Kalibriermethode / Méthode d'étalonnage

The calibration was performed in mass flow rigs using weighing scales in start / stop operation. All weighing scales are periodically calibrated by internationally accredited laboratories.

Die Kalibrierung wurde an Massedurchflussständen mit Waagen im Start / Stop-Betrieb durchgeführt. Alle Waagen werden regelmäßig durch international akkreditierte Prüflabore kalibriert.

L'étalonnage a été réalisé sur un banc utilisant des pesons de référence avec plusieurs pesées successives. Tous les pesons sont contrôlés périodiquement par des laboratoires internationaux accrédités.

Test Equipment Data / Kalibrierstand / Données du banc d'étalonnage

Serial Number / Seriennummer / Numéro de série	:	2750857/2030707
Calibration fluid / Kalibrierflüssigkeit / Fluide d'étalonnage	:	Water / Wasser / Eau
Uncertainty / Messunsicherheit / Incertitude	:	0.035%

Calibration Results / Kalibrierergebnis / Résultats d'étalonnage

Set Flow rate gewählter Durchfluss Débit réglé (kg/h)	Measured Mass gemessene Masse Masse mesurée (kg)	Actual Mass tatsächliche Masse Masse réelle (kg)	Deviation Abweichung Ecart %
97	18.99611	18.98252	0.072
331	21.98241	21.97688	0.025
615	22.79318	22.79779	-0.020

Calibration Data / Kalibrierdaten / Données d'étalonnage

CF1: 20.4	CF2: 750.00	CF3: 300.00	CF4: 0.0000000	CF5: 3174.8042
CF6: -44.686546	CF7: 0.0000000	CF8: 0.0000000		
CF11: 0.0000000	CF12: -41.775215	CF13: 0.0000000	CF14: 0.0000000	CF15: 0.0000000
CF16: 0.0000000	CF17: 0.0000000	CF18: 0.0000000	CF19: 0.0000000	CF20: 0.0000000
CF21: 0.0000000	CF22: 0.0000000	CF23: 0.0000000	CF24: 0.0000000	CF25: 0
CF26: 0.0000000	CF27: 0.0000000			
DCF1: 2	DCF2: 998.68665	DCF3: 1.0000000	DCF4: 230.30499	DCF5: 0
DCF6: 0.0000000	DCF7: 1.0000000	DCF8: 201.87296		

Additional Data / Zusatzdaten / Données complémentaires

Process Connections / Prozessanschlüssen / Raccords process:	DN10 PN100 to DIN 2501	
Electronic Revision / Elektronik Revision / Version électronique :	ER1.0.5_	S/N: 11204213

Calibration Date / Kalibrierdatum / Date d'étalonnage : 2015-02-26

This certificate is produced with EDP and valid without signature / Dieses Zertifikat wurde maschinell erstellt und ist ohne Unterschrift gültig / Ce certificat a été géré par un système automatisé, il est valide sans signature