

# **Excellent Integrated System Limited**

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Enocean HSM100

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### DATA SHEET V1.2



# Humidity Sensor Module HSM 100

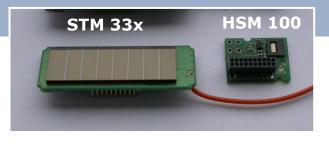
The humidity sensor module HSM 100 extends the functionality of STM 33x / STM 330C / STM 33xU / STM 431J temperature sensor modules.

#### **Functional Principle**

HSM 100 contains an internal calibrated humidity sensor. It can be plugged onto members of the STM 33x / STM 431J module family via a 20 pin connector. The sensor signal is read via the ADIO3 input of STM 33x / STM 431J.

In order to be able to read the sensor signal, STM 33x / STM 431J has to be configured to an EEP supporting humidity. This can be done via Dolphin Studio.

#### **Features Overview**



Type HSM 100

Ordering Code S3095-D100

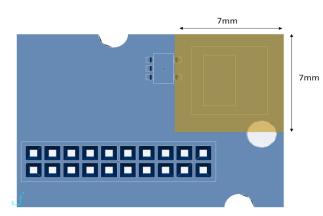
Humidity sensor	measurement range 0%-100% r.h. resolution 0.4% r.h.
	accuracy typ. ±5% r.h. between 30%-70% r.h. and 0-40°C
Power supply	via SWPWR pin from STM 33x / STM 330C / STM 33xU / STM 431J
Module dimensions	18 x 13 mm
Operating temperature	-20 up to +60 °C



Please ensure sufficient ventilation of air inside the housing. Otherwise the measurement will not represent ambient humidity.



Please avoid any material within 2mm distance from the 7mm x 7mm area depicted in the figure below (in plane as well as above and below the PCB). The measurement might be influenced by detuning the capacitive sensor.





DATA SHEET V1.2

## **Distributor of Enocean: Excellent Integrated System Limited** Datasheet of HSM100 - BOARD PIGGYBACK FOR STM330 MOD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



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	<ul> <li>1)Leiterplatten Gesamtdicke mit Leiterbahnen und Lötstoplack PC board total thickness with conductor paths and solder resist</li> <li>2) Toleranz für Fräskante: 13 ± 0.2 toleranz für Bohrungstand (Ø2±0.05): 13 ± 0.1</li> <li>3) Toleranz für Bohrungstand (Ø2±0.05): 13 ± 0.1</li> </ul>	e pitch (v∠±u.uc): ci ± u.i ehöhe max. 0.8 mm height max. 0.8 mm	Messstab 5:1	Modul HSM100	A55-C01
5 6 	<ol> <li>1)Leiterplatten Gesamtdicke mit Leitert PC board total thickness with conduct</li> <li>2) Toleranz für Fräskante: 13 ± 0.2 tolerance for milled edge: 13 ± 0.2</li> <li>3) Toleranz für Bohrungsabstand (Ø240.000)</li> </ol>	tolerance for nole pitch (φ∠±⊻∪.UJ): 4) restliche Bauteilehöhe max. 0.8 mm remaining component height max. 0.8 mm	<i>z</i> i	Mile         18, 01, 11           Mile	Image: Non-state         XXXXX         Image: Non-state         Image: No-state         Image: No-state
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