Module	Module key	Group	Group ID	Description
Sentiface	0x1XXX	Timings	0x00	Defines parameters for measurements and transmission behavior
Sentiface	0x1XXX	Alarms and limit values	0x01	Defines alarms and limit values, e.g. upper temperature limit and lower temperature limit
Sentiface	0x1XXX	Settings for opening detection	0x02	Defines measurement thresholds for triggering the alarm for temperature and relative humidity
Sentiface	0x1XXX	Settings for tilt detection	0x03	Defines the behavior of the acceleration sensor

Tables for cross-product modules (Senticom/Sentivisor) can be found in the Generic NFC and Downlink documentation.

Further information on configuring sensor communication can be found in the respective generic LoRaWAN® or mioty® documentation, depending on the version.

Instructions valid for versions:

ARTICLE CODE	FEATURES
S-JUNO-LOEU-TH	JUNO TH sensor, temperature and relative humidity with tilt detection and opening detection LoRaWAN®
S-JUNO-IX-LOEU-TH	INDUSTRIAL TH sensor, temperature and relative humidity with tilt detection and opening detection LoRaWAN®
S-JUNO-MIOTY-TH	JUNO TH sensor, temperature and relative humidity with tilt detection and mioty® opening detection
S-JUNO-IX-MIOTY-TH	INDUSTRIAL JUNO TH sensor, temperature and relative humidity with tilt detection and mioty® opening detection

SENTIFACE: GROUP TIMINGS 0x00								
Resources	Resource ID	Description	key (NFC/BLE)	Min	Max	Factory setting	Unit	Module key
MEASUREMENT PERIOD	0x00	Specifies the period in which the measured values are recorded. 5 minutes means that a measurement is always taken by the sensor after 5 minutes.	period	1/5*	360	30	min	1111
REGULAR TRANSMISSION INTERVAL	0x01	Number of measurements performed up to transmission.	every	1	64	6		1111

*

5: For version S-JUNO-LOEU-TH and S-JUNO-MIOTY-TH

1: For version S-JUNO-IX-LOEU-TH and S-JUNO-IX-MIOTY-TH

SENTIFACE: GROUP ALARM SETTINGS 0x01								
Resources	Resource ID	Description	key (NFC/BLE)	Min	Max	Factory setting	Unit	Module key
ALARM ACTIVE	0x00	Indicates which alarms are activated, whether for temperature or relative humidity: • 0: Both alarms deactivated • 1: Temperature alarm active • 2: Rel. humidity alarm active • 3: Both alarms active	aact	0	3	1		1111
TEMPERATURE DELTA	0x01	Specifies by how much the temperature must change in absolute terms compared to the last transmission for an ALARM transmission to be triggered. This transmission is carried out independently of the normal transmission interval.	tdt	1	50	5	°C	1111
TEMPERATURE UPPER LIMIT	0x02	Specifies the upper absolute limit value at which an alarm is triggered.	tht	0	85	40	°C	1111
TEMPERATURE LOWER LIMIT	0x03	Specifies the lower absolute limit value at which an alarm is triggered.	tlt	-25	75	0	°C	1111
REL. HUMIDITY DELTA	0x04	Specifies by how much the relative humidity must change in absolute terms compared to the last transmission for an ALARM-transmission to be triggered. This	hdt	1	80	20	%RH	1111

		transmission is carried out independently of the normal transmission interval (0x05 and following were used here for sample versions).						
REL. HUMIDITY UPPER LIMIT VALUE	0x05	Specifies the upper absolute limit value at which an alarm is triggered.	hht	5	100	80	%RH	1111
REL. HUMIDITY LOWER LIMIT VALUE	0x06	Specifies the lower absolute limit value at which an alarm is triggered.	hlt	0	95	20	%RH	1111
HYSTERESIS TEMPERATURE	0x07	Determines the absolute hysteresis in °C for state changes. If the temperature falls below or exceeds a threshold value minus hysteresis, the system switches from a higher to a lower alarm status.	thy	2	0	10	°C	1111
HYSTERESE REL. AIR FLUID	0x08	Determines the absolute hysteresis in %RH for status changes. If the relative humidity falls below or exceeds a threshold value minus hysteresis, the system switches from a higher to a lower alarm status.	hhy	5	0	30	%RH	1111

SENTIFACE: OPENING DETECTION GROUP 0x02								
Property	Property ID	Description	key (NFC/BLE)	Min	Max	Default	Unit	Module Key
OPENING COOLDOWN	0x00	Specifies a period of time in which, after the triggering of an opening Further opening not again can be triggered (debounces the openings). The reference value is the last counted opening.	acool	0	600	0	sec	1111
OPENING TIME ALARM	0x01	Indicates how long the lid is open until an alarm is triggered.	oaaf	5	2880	10	min	1111
OPENING MODE	0x02	Describes which direction the sensor is facing when it is **closed** and which angles are defined for opening detection. Face up describes the status when the sensor is lying on the table and looking up at the ceiling. Settings from **0 to 7 with acceleration sensor**, **8 and 9 Hall sensor:** • 0: off • 1: Ultra low power. Fixed threshold value 50° . Closed when directed downwards (face down). • 2: Ultra low power. Fixed threshold value 50° . Closed when directed upwards (face up). • 3: Ultra low power. Fixed threshold value 50° . Closed	opmo	0	8	1		1111

		when directed to the side (sidewards). • 4: Extended tilt sensing. Adjustable threshold value. Closed when directed downwards (face down). • 5: Extended tilt sensing. Adjustable threshold value. Closed when directed upwards (face up). • 6: Extended tilt sensing. Adjustable threshold value. Closed when directed sideways. • 7: Extended tilt sampling. Adjustable threshold value. Automatic calibration of the closed alignment. • 8: Container is closed when solenoid is applied. • 9: Container is open when solenoid is applied.						

SENTIFACE: ADVANCED INCLINATION SETTINGS GROUP 0x03								
Property	Property ID	Description	key (NFC/BLE)	Min	Max	Default	Unit	Module Key
SAMPLING PERIOD	0x00	Specifies how often the acceleration sensor determines the angle. The higher the frequency, the higher the power consumption.	tspe	2	600	2	s	1111
TRIGGER LEVEL	0x01	Specifies the angle from which an opening is counted or an alarm is triggered.	ttle	5	180	20	°	1111
TRIGGER HYSTERIA	0x02	Hysteresis value for the opening angle	tthy	1	90	4	°	1111

Example downlinks:

Setting	Downlink
period = 10	00 11 11 00 00 00 00 00 0A
every = 5	00 11 11 00 01 00 00 00 05
alarm_act = 0	00 11 11 01 00 00 00 00 00