Product List 2012

E-Senza® Technologies

I/O	SenzaBlock	order code	product description
SenzaBlocks are the individual network nodes enabling sensors, actors and devices to communicate wirelessly.			
SenzaBlock with Integrated Sensors — **SB110-NTC** NTC Temperature sensor		SB110-NTC-E65	* **including** NTC temperature sensor on 2m cable (ACC-DS-NTC) * sensor temperature range -55˚C to +125˚C * resolution 0,5 ˚C * battery powered * external antenna * enclosure rating IP65 * different cable length, sensor connection possible against specification
		SB110-NTC-A65	* **including** NTC temperature sensor on 2m cable (ACC-DS-NTC) * sensor temperature range -55˚C to +125˚C * resolution 0,5 ˚C * battery powered * external antenna * enclosure rating IP65 * alu enclosure * different cable length, sensor connection possible against specification
		SB110-INTC	* integrated NTC temperature sensor * sensor temperature range -55˚C to +125˚C * resolution 0,5 ˚C * battery powered * internal antenna * enclosure rating IP54 * FCC approval expected in 06/2011
		SB110-NTC3-E65	* including 3-NTC temperature sensors on 6 m cable (ACC-DS-NTC3) * sensor temperature range -55˚C to +125˚C* resolution 0,5 ˚C * battery powered * external antenna* enclosure rating IP65 * different cable length, sensor connection possible against specification
		SB110-NTC3-A65	* including 3-NTC temperature sensors on 6 m cable (ACC-DS-NTC3) * sensor temperature range -55˚C to +125˚C * resolution 0,5 ˚C * battery powered * external antenna * enclosure rating IP65 * alu enclosure * different cable length, sensor connection possible against specification
SenzaBlock with Integrated Sensors — **SB110-T** 2 Wire PT100 Sensor inc. 2m cable		SB110-T-E65	* **including** PT100 sensor class B, 2-wire (ACC-DS-PT100) * sensor temperature range -100˚C to +400˚C * resolution 0,1 ˚C / 24-bit * sensor interface: 1xPT100, 2-wire * battery powered * external antenna * enclosure rating IP65 * different cable length, sensor connection possible against specification
		SB110-T-A65	* **including** PT100 sensor class B, 2-wire (ACC-DS-PT100) * sensor temperature range -100˚C to +400˚C * resolution 0,1 ˚C / 24-bit * sensor interface: 1xPT100, 2-wire * battery powered * external antenna * enclosure rating IP65 * alu enclosure * different cable length, sensor connection possible against specification
SenzaBlock with Integrated Sensors — **SB110-JT**		SB110-JT-E54	* including b-head and temperature sensor PT100 * 25 cm stainless steel sensor (Ø 6mm) * sensor temperature range -100˚C to +400˚C * resolution 0,1 ˚C / 24-bit * sensor has a ½" NPT process connection * battery powered (Battery included ACC-BP-JT) * external antenna * enclosure rating IP54 * different process connection or Sensor length available on request

SenzaBlock with Integrated Sensors	**SB110-HT** Digital Temperature / Humidity Sensor	SB110-HT-E65	* stump with integrated MEMS sensor * sensor temperature range -40°C to +125°C * sensor humidity range 10% to 90% rH * resolution 0,01 °C (temperature) and 0,05% rH (humidity) * battery powered * external antenna * enclosure rating IP65 * up to 2 m cable can be ordered with sensor at no extra cost
		SB110-HT-A65	* stump with integrated MEMS sensor * sensor temperature range -40°C to +125°C * sensor humidity range 10% to 90% rH * resolution 0,01 °C (temperature) and 0,05% rH (humidity) * battery powered * external antenna * enclosure rating IP65 * alu enclosure * up to 2 m cable can be ordered with sensor at no extra cost
SenzaBlock with Integrated Sensors	**SB110-IHT** Integrated Temperature / Humidity Sensor	SB110-IHT	* integrated MEMS sensor for temperatur and humidity * sensor temperature range -40°C to +125°C * sensor humidity range 10% to 90% rH * resolution 0,01 °C (temperature) and 0,05% rH (humidity) * battery powered * internal antenna * enclosure rating IP54 * FCC approval expected in 06/2011
SenzaBlock with Integrated Sensors	**SB110-DP** Integrated Differential Pressure Sensor	SB110-DP-E54	* integrated factory-calibrated DP sensor * measurement range ±500 Pa (±5mbar) * accuracy 0,2 Pa ± 3% of measured value * resolution 0,5 Pa * battery powered * external antenna * enclosure rating IP54
SenzaBlock with Integrated Sensors	**SB110-CO2** Integrated CO2 Sensor		* integrated self-calibrating NDIR sensor * resolution 10 ppm * externally powered * external antenna * enclosure rating IP40
		SB110-C-E40-2000	* sensor range 0-2000 ppm CO^2
		SB110-C-E40-5000	* sensor range 0-5000 ppm CO^2
		SB110-C-E40-10000	* sensor range 0-10000 ppm CO^2
SenzaBlock with Integrated Sensors	**SB110-CT** Integrated Current Sensor		Current Sensor (Energy) ** on request**
SenzaBlock as Wireless Adapters	**SB110-AI** Analog input interface 2 channels	SB110-AI-E65-4A	* 2 integrated analog input channels * 12-bit ADC * battery powered * external antenna * enclosure rating IP65 * input interfaces: 2 x 4-20 mA
			* input interfaces: 2 x 0-20 mA *on request*
			* input interfaces: 2 x 0-2 V *on request*
			* input interfaces: 2 x 0-10 V (only when externally powered) *on request*
		SB110-AI-A65-4A	* 2 integrated analog input channels * 12-bit ADC * battery powered * external antenna * enclosure rating IP65 * alu enclosure * input interfaces: 2 x 4-20 mA
			* input interfaces: 2 x 0-20 mA *on request*
			* input interfaces: 2 x 0-2 V *on request*
			* input interfaces: 2 x 0-10 V (only when externally powered) *on request*

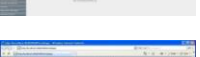|		order code	product description
SenzaBlock as Wireless Adapters	**SB110-IO** Digital input OR output 2 channels	SB110-IO-E65	* 2 integrated digital input and digital output channels * battery powered * external antenna * enclosure rating IP65
		SB110-IO-A65	* 2 integrated digital input and digital output channels * battery powered * external antenna * enclosure rating IP65 * alu enclosure
SenzaBlock as Wireless Adapters	**SB110-PI**	SB110-PI-E65	* for smart metering applications * 2 integrated impulse input channels with 2 kHz * battery powered * external antenna * enclosure rating IP65
		SB110-PI-A65	* for smart metering applications * 2 integrated impulse input channels with 2 kHz * battery powered * external antenna * enclosure rating IP65 * alu enclosure
SenzaBlock as Wireless Adapters	**SB140** RS232 serial interface	SB140-E54	* RS232 serial interface * external antenna * external powered * enclosure rating IP54
	SenzaGate	order code	product description

The SenzaGate provide protocol translation and connectivity between the SenzaNET network and backend systems. Manageable via SenzaWMS software or AT commands.

		order code	product description
32 nodes	**SG130**	SG130-D-32-E40	* provide protocol translation and connectivity between the SenzaNET network and backend systems * manages up to 32 SenzaBlocks * USB 2.0 interface * data and commands are buffered locally * USB powered * external antenna * enclosure rating IP 40
		SG130-S-32-E40	* provide protocol translation and connectivity between the SenzaNET network and backend systems * manages up to 32 SenzaBlocks * RS232 interface * data and commands are buffered locally * power source: 12 – 24 VDC * external antenna * enclosure rating IP 40 * on request
IP 40		SG131-D-W-32	* manages up to 32/64 SenzaBlocks * USB maintanance port * Ethernet interface * data and commands are buffered locally * power source: 12 – 24 VDC * external antenna * enclosure rating IP 40

32/64 nodes	**SG131 - Ethernet**	**IP 40** **Alu enclosure**	 Design simular to picture	SG131-D-P-32	* manages up to 32/64 SenzaBlocks * USB maintanance port * Ethernet interface * data and commands are buffered locally * power source: 12 – 24 VDC * external antenna * enclosure rating IP 40 (professional version) * alu enclosure * suitable for harsh industrial wireless *on request
		IP 65 **Alu enclosure**	 Design simular to picture	SG131-D-R-32	* manages up to 32/64 SenzaBlocks * USB maintanance port * Ethernet interface * data and commands are buffered locally * power source: 12 – 24 VDC * external antenna * enclosure rating IP 65 (outdoor version) * alu enclosure * IP65 Ethernet cable available as accessory (ASS-EC-IP65) *on request
	SG131 - Profibus	**IP 40**		SG131-PB-W-32	* manages up to 32/64 SenzaBlocks * USB maintanance port * Profibus interface * data and commands are buffered locally * power source: 12 – 24 VDC * external antenna * enclosure rating IP 40
32/64 nodes	**SG131 - Modbus-TCP**	**IP 40**		SG131-MT-W-32	* manages up to 32/64 SenzaBlocks * Modbus/TCP interface * data and commands are buffered locally * power source: 12 – 24 VDC * external antenna * enclosure rating IP 40
	SG131 - GPRS	**IP 40**		SG131-G-W-32	* manages up to 32/64 SenzaBlocks * GPRS interface * data and commands are buffered locally * power source: 12 – 24 VDC * external antenna * enclosure rating IP 40
32/64 nodes	**SG151** **with integrated WMS-Software**			SG151-D-W-32	* integrated network monitoring software WMS Enterprise (configuration, calibration, linearization, localization and monitoring of all devices) * large data storage capacity (512 Mbyte) * plug & play - no software installation and simple IT network configuration * Ethernet maintanance port * 12 VDC power source * manages up to 32/64 SenzaBlocks * allows for FTP and HTTP/POST Mechanism for Data Export * external antenna * enclosure rating IP40 * Wi-Fi on request
			 Design simular to picture	SG151-L	**** available in 04/2011**** * integrated network monitoring configuration software (network configuration and calibration) * large data storage capacity (512 Mbyte) * plug & play - no software installation and simple IT network configuration * Ethernet maintanance port * Modbus interface * 12 VDC power source * manages up to 32/64 SenzaBlocks * allows for FTP and HTTP/POST Mechanism for Data Export * external antenna * enclosure rating IP40

	SenzaWMS	order code	product description

The SenzaWMS is a platform independent Java based web application framework that enables centralized management and monitoring of up to 255 SenzaNET wireless device

SenzaWMS Enterprise * Data visualization and real-time statistics * Network node location * Network health monitoring * Authentication and security * Data export and automatic data backup * Alarm notification via SMS, E-Mail & Windows event log * Historical routing graphs and management * Network configuration * Custom device types * Device configuration * Task management * Custom link list * Advanced system settings * Access control		WMS-E-1	1 license, price per license
		WMS-E-5	5 licenses, price per license
		WMS-E-25	25 licenses, price per license
		WMS-E-50	50 licenses, price per license
		WMS-E-100	100 licenses, price per license
		WMS-E-255	255 licenses, price per license