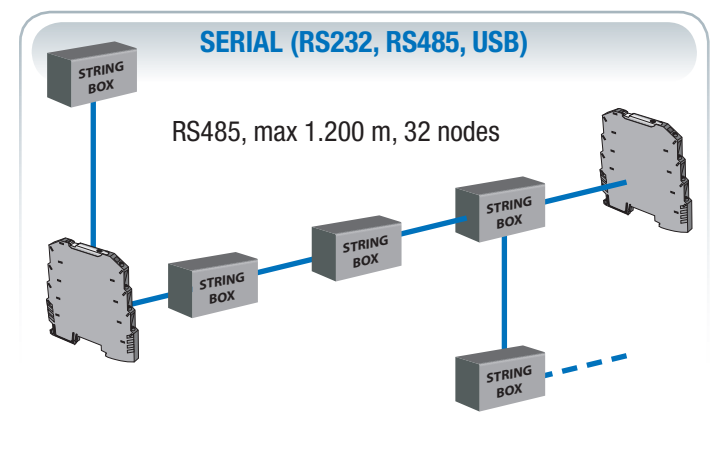
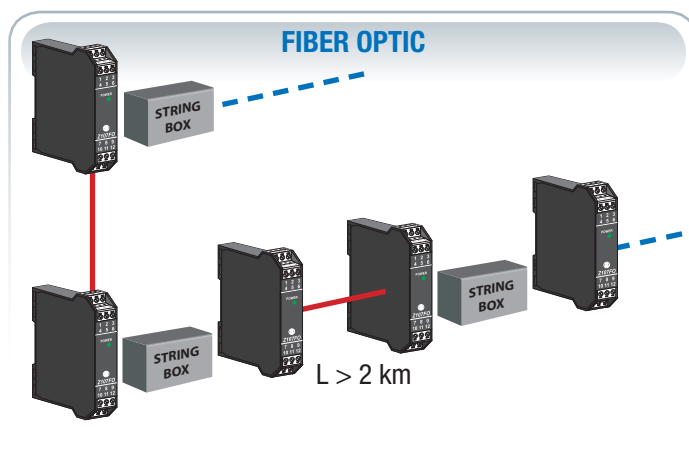
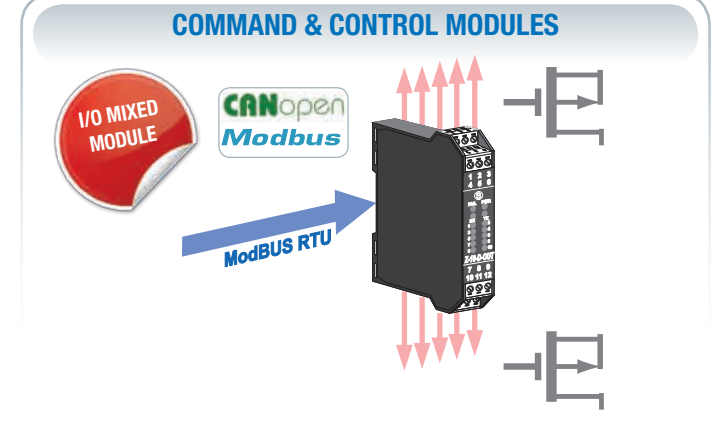
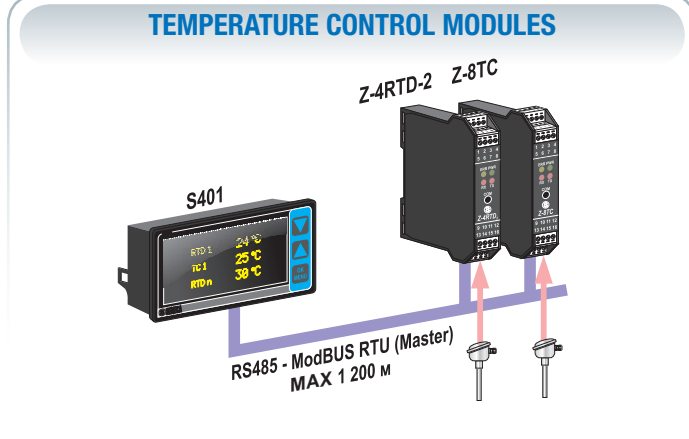
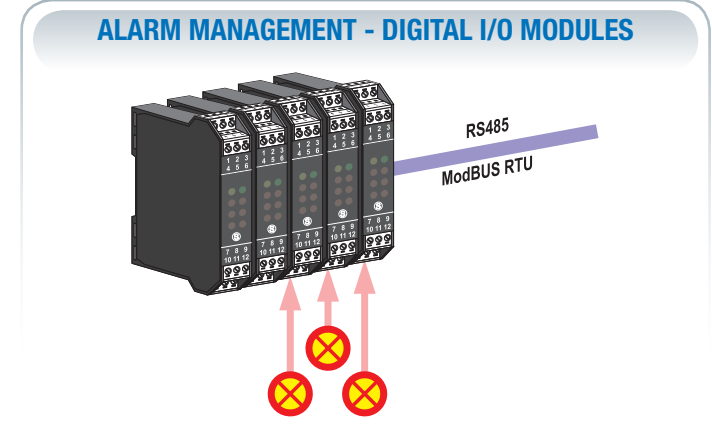
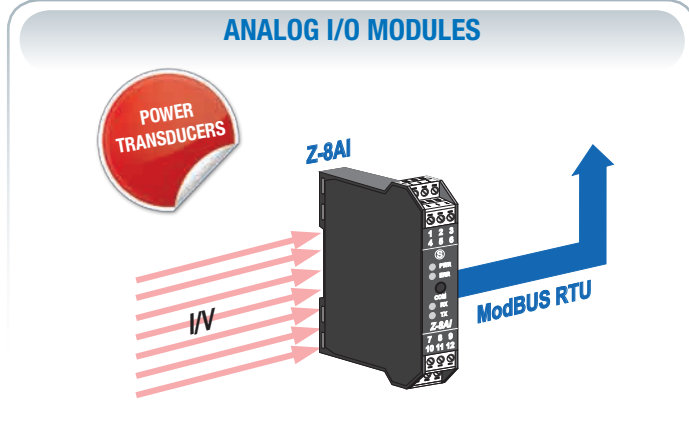
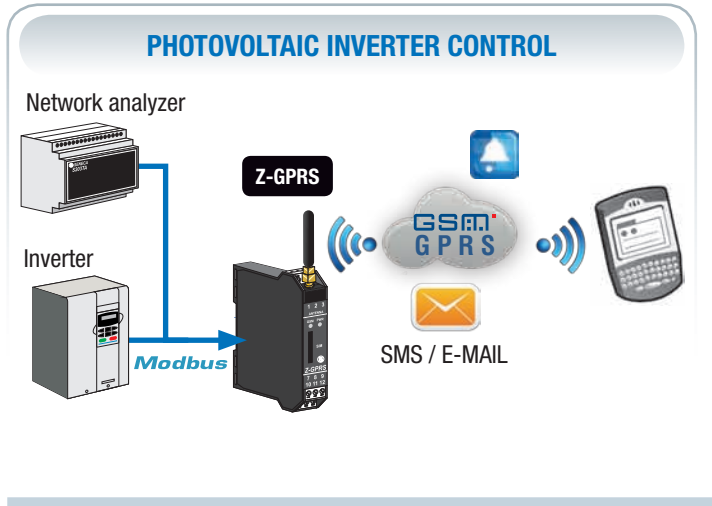
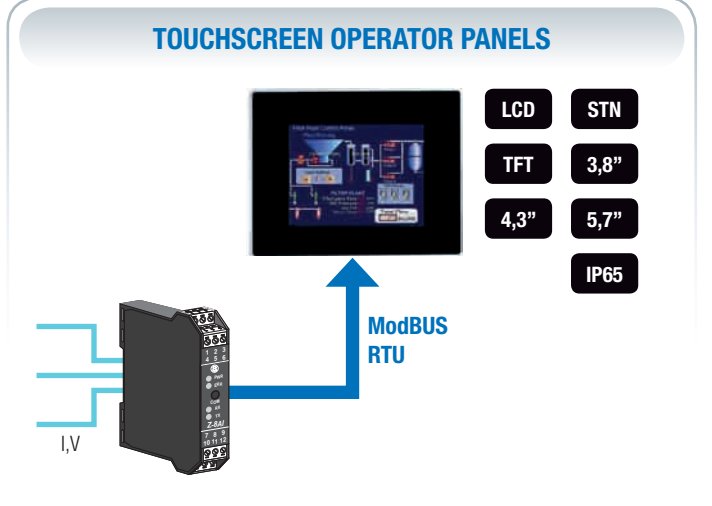
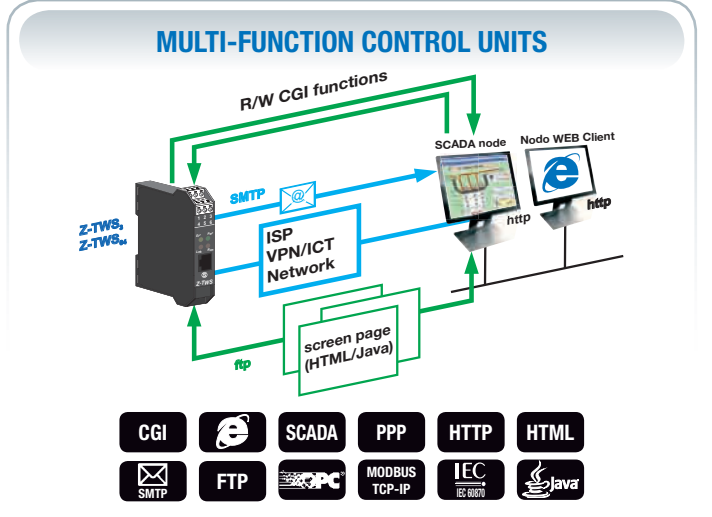


COMPONENTS > IO MODULES & COMMUNICATION INTERFACES

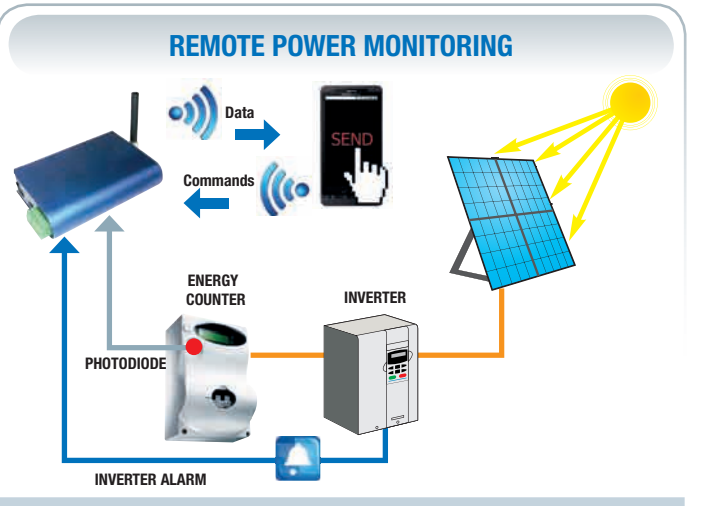
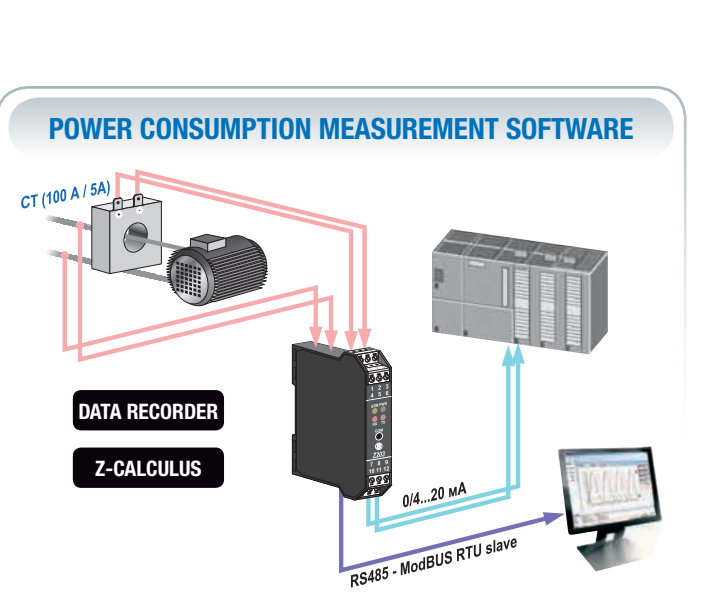
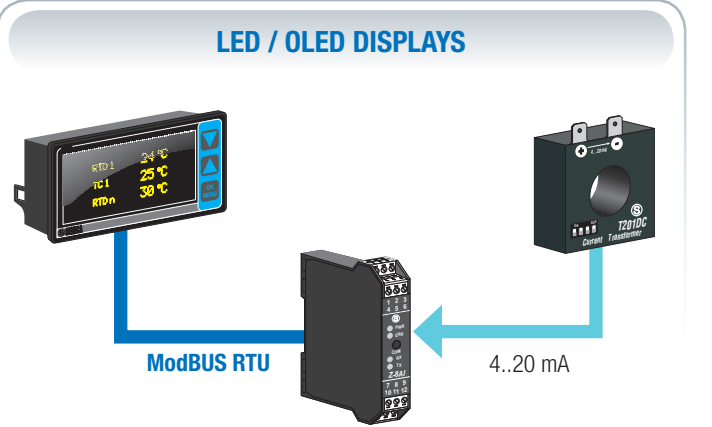


Code	Description	Code	Description
Z-DAQ-PID	I/O universal module with PID regulation	S117P-1	RS232/USB, TTL/USB, RS485/USB asynchronous serial converter
Z-4AI	4-CH analog input module / RS485	Z-BRIDGE	Modbus RTU / Modbus TCP-IP bridge
Z-8AI	8-CH analog input module / RS485	K107A	RS485/RS485 serial repeater
Z-4RTD-2	4-CH RTD input module / RS485	K107B	RS232/RS485 serial converter
ZC-4RTD	4 Ch RTD (Pt100, Ni100, Pt500, Pt1000) input CANopen module	K107USB	DIN rail RS485/USB asynchronous serial converter
Z-4TC	4-CH thermocouple input module / RS485	Z107FO	Fiber optic - serial (RS232/RS485) converter
Z-8TC	8-CH thermocouple input module / RS485	ZC-107FO	Fiber optic - CAN repeater converter
ZC-8TC	8 CH Thermocouple (J,K,E,N,S,R,B,T) CANopen module	Z107E	Ethernet - RS232/RS485 Adapter
Z-D-IN	5-CH Digital input module / RS485	DL169-RS232	Radio modem 169,4 MHz OEM RS232 interface
Z-10-D-IN	10-CH Digital Input module / RS485	DL169-RS485	Radio modem 169,4 MHz OEM RS485 interface
Z-D-IO	8-CH, 6 digital input - 2 digital outputs control module	S232-SL	Single loop fiber optic - Rs232 multidrop converter
ZC-24DI	24 CH digital input CANopen / ModBUS	S232-DL	Double loop fiber optic - Rs232 multidrop converter
ZC-24DO	24 CH digital output CANopen / ModBUS	S485-SL	Single loop fiber optic - Rs485 multidrop converter
ZC-16DI-8DO	16 CH digital input - 8 CH digital output CANopen / ModBUS	S485-DL	Double loop fiber optic - Rs485 multidrop converter
		Z-GW-MB	Modbus RTU Master to Modbus TCP gateway / server

COMPONENTS > HMI & CONTROL

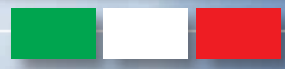


Code	Description	Code	Description
Z-LWS-C	Micro PLC - Standard CoDeSys	ZTOPKIT	Programming toolkit ZTOP series
Z-TWS-3-C	Multi-function control unit - Standard CoDeSys	S401-L	OLED display indicator with ModBUS interface
Z-TWS-64-C	Multi-function control unit @ 64 bit - Standard CoDeSys	Z-GPRS	GSM / GPRS unit with ModBUS interface
ZTOP4C	4,3" widescreen color touchscreen HMI terminal	MY ALARM GSM	Alarm management & Remote Control GSM Unit
ZTOP306	5,7" touchscreen HMI terminal		

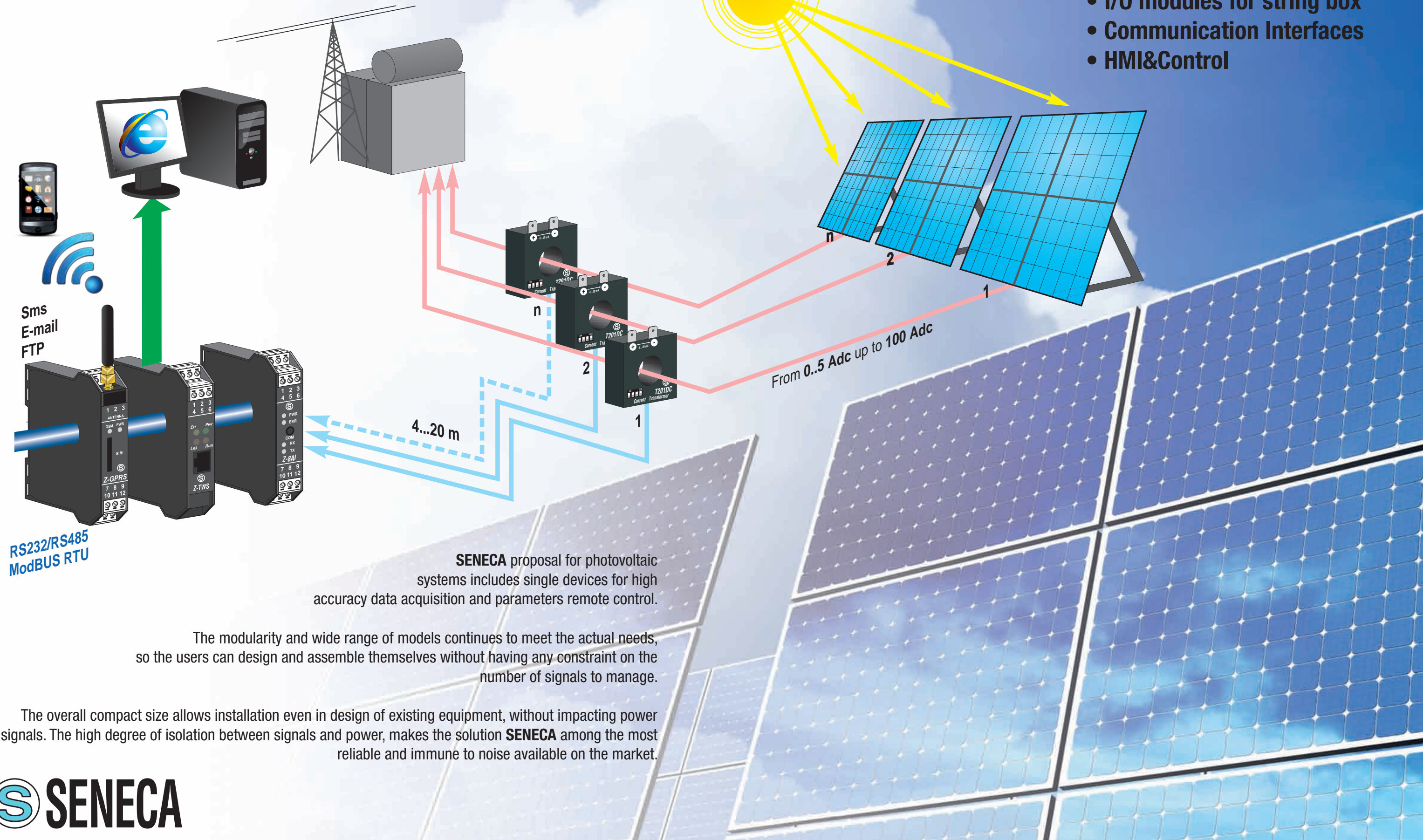


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PHOTOVOLTAIC SYSTEMS: COMPONENTS & SOLUTIONS



SENECA MODULAR SOLUTION



COMPONENTS > MEASUREMENT TRANSDUCERS

FREE CONTACT STRING CURRENT ACQUISITION

PATENTED TECHNOLOGY

T-Line Current Transformers

POWER NETWORK DATA ACQUISITION

S203TA

ModBUS RTU

STRING VOLTAGE ACQUISITION (BY SHUNT)

SHUNT

60/200 mV

K121

Z-BAI

4...20 mA

VOLTAGE MEASUREMENT ON PHOTOVOLTAIC PANELS

MODBUS

Z204

AIR / PANEL TEMPERATURE ACQUISITION

ENVIRONMENT PARAMETERS ACQUISITION (BY PROBE / CLAMP)

ACCURACY CLASS 0,1%

K121

ENVIRONMENT PARAMETERS ACQUISITION (INTERNAL PROBE)

T120

Pt100 Ni100

4...20 mA

24°C

RESOLUTION 16 bit

SOLAR RADIATION TRANSDUCING

CANopen

Modbus

ORDER CODES		ORDER CODES	
Code	Description	Code	Description
T201DC	DC Current Transformer, loop powered	BOX-1000-01/10	1000/100V Voltage divider (with protections)
T201DC100	Passive current transducers 100 A dc for 4...20 mA current loop	K121	Universal converter suitable for parameters reading
T201DCH	AC/DC contactless TRMS direct and alternate current transformers	T121	Universal transmitter suitable for parameters reading
S203T	3-phases network analyzer, input up to 100mArms	PT100-A	Atmospher thermoprobe
S203TA	3-phases network analyzer, input up to 5Arms	PT100-A-mA	Atmospher thermoprobe with mA output
Z203	AC single phase network analyzer	PT100-SOLAR	Solar thermoprobe
Z204	AC/DC voltage to DC current/voltage isolator/converter	PT100-SOLAR-mA	Solar thermoprobe with mA output