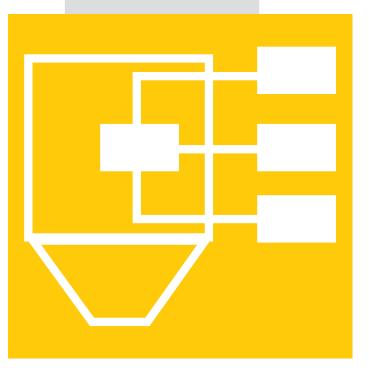
100% Made & Designed in Italy

S20N1-S21N1 BATCH CONTROLLERS





S20N1 / S21N1 - Batch Controllers

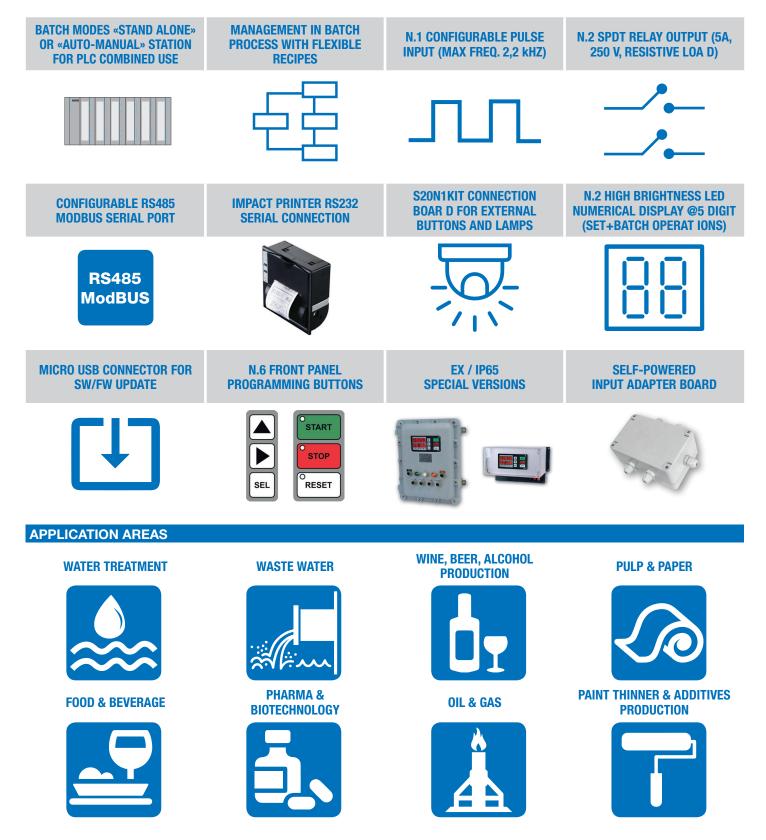




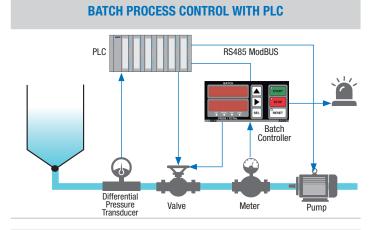
S20N1 / S21N1 BATCH CONTROLLERS WITH PULSE INPUT, LED DISPLAY AND MODBUS INTERFACE

SENECA S20N1 and S21N1 batch controllers are cost-effective, simple and safe solutions for process automation. Equipped with polycarbonate front membrane from 72x144 mm with 2 Numeric 5-digit LED high brightness displays, 7 status indicators LED and 6 programming buttons, S20N1 and S21N1 get digital signals from free contact, Reed, NPN, NAMUR, Hall effect and photoelectric sensors. The units are designed to control the measuring probes and activate valves or motors so to manage metering, batch& blending, filling and regeneration processes for fluids, in automatic, time-based and accurated way.

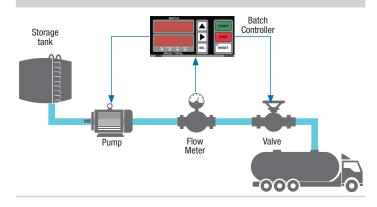
and regeneration processes for fluids, in automatic, time-based and accurated way. S20N1 and S21N1 batch controllers can be used as "stand-alone" metering unit or "auto-manual" station. In this second mode they work as a local control unit in order to manually compensate, integrate or stop metering recipes remotely controlled from the PLC. Flexibility and redundancy of the system, capacity dosing, recipe development, energy efficiency of controlled processes are improved.



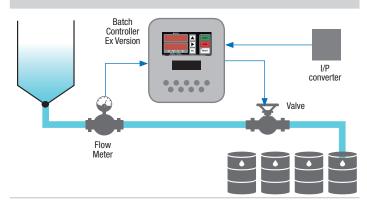
APPLICATION EXAMPLES



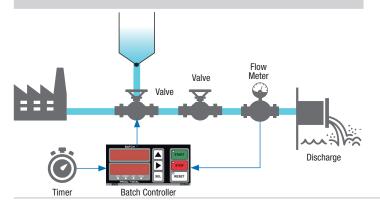
BATCHING APPLICATION TO FILL A TANK TRUCK



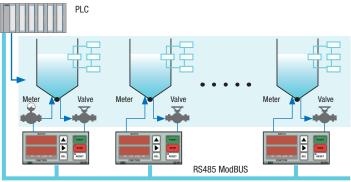
FILLING SYSTEM BATCHING IN HAZARDOUS AREA



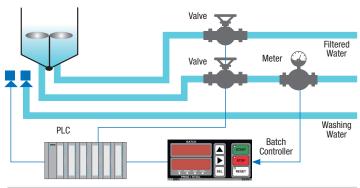
DISCHARGE INDUSTRIAL WASTE CONTROL SYSTEM



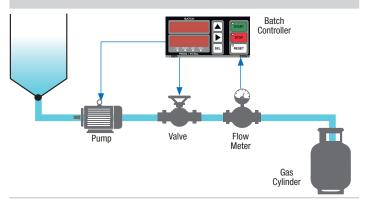
MULT IPLE RECIPES FROM REMOTE COMMAND (PLC) OR LOCAL (AUTO-MAN STAT ION)



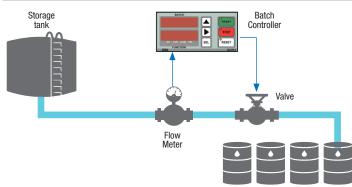
FILTER REGENERATION BATCHING FOR WATER TREATMENT



GAS REINJECTION SYSTEM IN WINEMAKING



FILLING SYSTEM WITH 2 SPEED VALVE CONTROL



S20N1 / S21N1 - Batch Controllers



C71	
361	



	Batch controller with pulse input, LED display and ModBUS interface	Batch controller with pulse input, LED display, ModBUS interface and self-powered clock
GENERAL DATA		
Power supply	115/230 Vac ± 50/60 Hz; 24 Vac/dc	115/230 Vac ± 50/60 Hz; 24 Vac/dc
Power transducer	12/24 Vdc, 30 mA (max)	12/24 Vdc, 30 mA (max)
Max consumption	10 VA	10 VA
Max isolation	1.500 V	1.500 V
Data storage	EEPROM, data	EEPROM, data
Clock	-	Clock with independente battery, data memory, automatic time correction
Interface	Nr.1 RS232 (printer command) Nr.1 RS485 / ModBUS (control and data monitoring) Nr.1 Micro USB (firmware update)	Nr.1 RS232 (printer command) Nr.1 RS485 / ModBUS (control and data monitoring) Nr.1 Micro USB (firmware update)
VISUALIZATION AND M	EASUREMENT	
Display	Nr.2 5 digit LED display	Nr.2 5 digit LED display
LED status indicators	Nr.7 LED for operating mode signalling	Nr.7 LED for operating mode signalling
INPUT DATA		
Nr channels	Nr.1 (isolated)	Nr.1 (isolated)
Туре	Reed, npn (2/3 wires), Namur, Hall effect, photoelectric sensor	Reed, npn (2/3 wires), Namur, Hall effect, photoelectric sensor
Max frequency	2,2 kHz	2,2 kHz
Control	Nr.3 input (start, stop, reset)	Nr.3 input (start, stop, reset)
OUTPUT DATA		
Nr channels	Nr.2	Nr.2
Туре	SPDT relay, rated current 5 A 250 V (resistive load)	SPDT relay, rated current 5 A 250 V (resistive load)
THERMOMECHANICAL	DATA	
Operating temperature	050°C	050°C
Storage temperature	-20+85°C	-20+85°C
Case	Noryl self-extinguish VO	Noryl self-extinguish VO
Front protection	Polycarbonate front panel	Polycarbonate front panel
Connection	Backside removable terminals	Backside removable terminals
Dimension (w x h x d)	144 x 72 x 130 mm	144 x 72 x 130 mm
Panel cut-out dimension	135 x 67 mm	135 x 67 mm
Weight	800 g	800 g
SETTINGS, NORMS		
Prorgamming / Dosing	With front buttons	With front buttons
Operating mode	Stand-alone or auto-man with remote PLC (RS485 - ModBUS)	Stand-alone or auto-man with remote PLC (RS485 - ModBUS)
Max batch operations	1	8
Approval	CE	CE

ORDER CODES		
Code	Description	
Batch Controller - Standard Versions		
S20N1-1-ST	Batch controller with pulse input, LED display, ModBUS interface, 115 / 230 Vac	
S20N1-23-ST	Batch controller with pulse input, LED display, ModBUS interface, 24 Vac/dc	
S21N1-1-ST	Batch controller with pulse input, LED display, ModBUS interface, self-powered clock, 115 / 230 Vac	
S21N1-23-ST	Batch controller with pulse input, LED display, ModBUS interface, self-powered clock, 24 Vac/dc	
Batch Controller - EX Versions		
S20N1EX-1-ST	Batch controller with pulse input, LED display, ModBUS interface, flame retardant Eexd case, 115 / 230 Vac	
S20N1EX-23-ST	Batch controller with pulse input, LED display, ModBUS interface, flame retardant Eexd case, 24 Vac/dc	
S21N1EX-1-ST	Batch controller with pulse input, LED display, ModBUS interface, self-powered clock, flame retardant Eexd case, 115 / 230 Vac	
S21N1EX-23-ST	Batch controller with pulse input, LED display, ModBUS interface, self-powered clock, flame retardant Eexd case, 24 Vac/dc	

ORDER CODES		
Code	Description	
Batch Controller - IP65 Versions		
S20N1IP65-1-ST	Batch controller with pulse input, LED display, ModBUS interface, IP65 case, 115 / 230 Vac	
S20N1IP65-23-ST	Batch controller with pulse input, LED display, ModBUS interface, IP65 case, 24 Vac/dc	
S21N1IP65-1-ST	Batch controller with pulse input, LED display, ModBUS interface, self-powered clock, IP65 case, 115 / 230 Vac	
S21N1IP65-23-ST	Batch controller with pulse input, LED display, ModBUS interface, self-powered clock, IP65 case, 24 Vac/dc	
Accessories		
FH190-24	Impact printer, 24 columns, 9-40 Vdc	
S20ADP	Scheda di amplificazione ingresso standard	
S20ADP-CM	Self-powered input adapter board for S20N1, S21N1, S30	
S20ADP-IP65	IP65 self-powered input adapter board	
S20N1-KIT-1-ST	S20N1 / S21N1 remote board, 115 / 230 Vac	
S20N1-KIT-23-ST	S20N1 / S21N1 remote board, 24 Vac/dc	



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