

The Need For Every
Process Industry

SPINK CONTROLS®

An ISO 9001:2008 Certified Company



DIGITAL PROCESS CONTROLLER

MODEL: SC / L - 1501 / DPC 965M

LEVEL

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The DPC 965M is a compact and reliable microcontroller-based process indicator and controller. It is designed to display process variables directly from a standard 4–20 mA DC loop without requiring any external power supply, while also offering versatile control and communication features.

APPLICATIONS

- Designed for indication and control applications in industrial processes.
- Large 7-segment Red LED display ensures visibility from long distances.
- 4½ digit resolution provides high accuracy of $\pm 0.3\% \pm 1$ LSD.
- Accepts 4–20 mA DC linear input – the most widely used signal in process industries.

FEATURES

- Rugged, state-of-the-art microcontroller-based design.
- 4½ digit, ½-inch LED display for clear process value indication.
- Field-settable flow totalizing and rate display.
- Signal retransmission capability.
- Programmable hysteresis for two or four relays.
- User-configurable span for flexible scaling.
- RS-485 serial communication with Modbus RTU protocol.
- Fully compatible with SCADA and DCS applications.

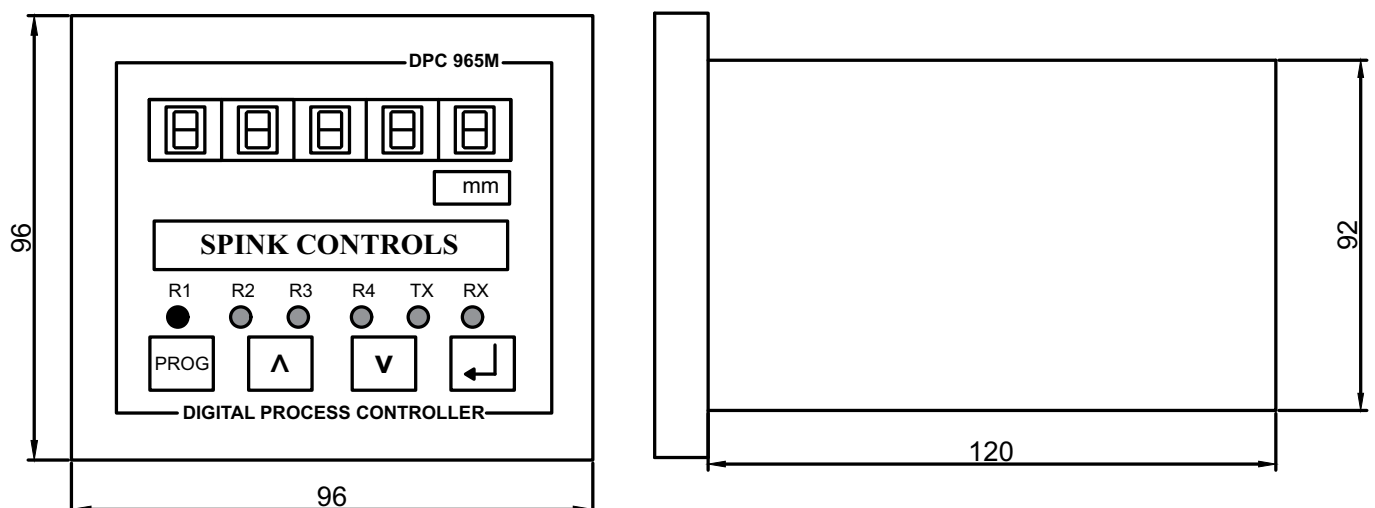
OPTIONAL

- Two / four relays with individually settable set points and hysteresis.
- RS-485 port with Modbus RTU for integration with all standard SCADA/DCS systems.
- 4–20 mA retransmission output for remote display or PLC connectivity.



DPC 965M
with Flameproof enclosure

DIMENSIONAL DRAWING



ENGINEERING SPECIFICATION

INPUT	: 4-20 mA DC LINER
DISPLAY	: 7 SEGMENT LED, 5-DIGIT PROCESS VALUE. DISPLAY SIZE = ½"
KEYBOARD	: 4 KEY TRACK-TILE KEYBOARD
SCALING	: PROCESS VALUE IS SCALABLE BY SOFTWARE WITH DECIMAL POINT SELECTION
RELAY OUTPUTS OPTIONAL	: 2 / 4 RELAY OUTPUTS, CONTACT RATING 230 VAC, 1AMP OPERATING ON 2 / 4 SET-POINTS WITH SETTABLE HYSTERESIS.
SUPPLY	: 230 VAC / 110 VAC , ±10 % , SINGLE PHASE, 50 Hz
ACCURACY	: ± 0.3 % of FSR ± 1 LSD
RESOLUTION	: 4 ½ DIGIT
INDICATIONS	: 3 mm LED INDICATION FOR RELAY AND SERIAL OPERATION
RETRANSMISSION OUTPUT (OPTIONAL)	: 4-20 mA TRUE RETRANSMISSION OUTPUT FOR INDICATION
TRANSMITTER POWER SUPPLY	: 24 VDC, 100 mA POWER SUPPLY IS MADE AVAILABLE FOR THE EXTERNAL TRANSMITTER
DATA STORAGE	: ALL SETTINGS ARE STORED IN A BATTERY BACKED RAM.
SERIAL COMMUNICATION OPTIONAL	: ON LINE PC CONNECTIVITY THROUGH SERIAL PORT Rs 485 on MODBUS PROTOCOL.
CONNECTIONS	: On Screw type connectors
CABINET	: PANEL MOUNTING ABS ENCLOSURE SIZE - 96 x 96 x 120 mm (H x W x D) CUTOUT - 92 x 92 mm
ENCLOSURE	: FLAMEPROOF (Ex d IIA & IIB T6 IP66) 400 x 200 x 175 mm

MODEL SELECTION

Suffix code	1	2	3	4	5	6	Parameter
Model No.	SC/DPC 965M						Model
Supply		S0					230VAC
		S1					110VAC
Communication			C0				No
			C1				Yes
Relay Output				O1			No(standard)
				O2			2
				O3			4
Retransmission					Rt0		No
					Rt1		Yes
Flameproof enclosure						WL	Required
						FM	Not required



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