

# **DALEC CONTROLS INC** FULL SERVICE DISTRIBUTION

16140 South Vincennes Avenue, South Holland, IL 60473

Phone: 847-671-7676 Fax: 847-671-7665 [www.dalec.com](http://www.dalec.com) sales@dalec.com

## Laureate DIN Rail Transmitters, 4-20 mA & Serial Data Output

Same high performance, signal conditioning and programmable features as Laureate digital panel meters, counters & timers.



### Standard Features

- 4-20 mA or 0-10V transmitter output, jumper selectable, isolated
- Analog output resolution 0.0015% of span (16 bits), accuracy  $\pm 0.02\%$  of span
- RS232 or RS485 serial data output, half or full duplex, isolated
- Modbus RTU, Modbus ASCII or Laurel ASCII protocol
- Dual solid state relays for alarm or control, isolated
- 5V, 10V or 24V dc transducer excitation output, isolated (most models)
- Universal AC power, 85-264 Vac, or low voltage power, 10-48 Vdc or 12-32 Vac
- DIN rail housing with detachable screw-clamp connectors
- Easy transmitter setup using PC-based [Instrument Setup Software](#)
- Available for most industrial analog or pulse-type transducer signals



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## Transmitter Product Line Overview

**Laureate DIN rail transmitters** can be interfaced to a wide range of sensors and transducers with using seven plug-in signal conditioners. The transmitters duplicate the high performance (high accuracy, high read rate) and extensive programmable features of 1/8 DIN Laureate digital panel meters, counters and timers. They utilize the same signal conditioners, much of the same firmware, and the same Windows-based instrument setup software. They come in a compact DIN rail mount package with detachable screw-clamp connectors for easy wiring. Standard transmitter features include an analog output (isolated), a Modbus serial data output (isolated), dual 120 mA solid state AC/DC relays (isolated), and a transducer excitation output (isolated, models other than for temperature or AC input).



## Transmitter Selector Guide

	Transmitter Signal Input & Function	Model Number	Analog Output	Serial Data I/O	Dual Relays
1	Quad 4-20 mA Loop Splitter	QLS	✓		
2	Serial Data Input (Serial-to-Analog Converter)	LTS6	✓	✓	✓
3	DC Voltage or Current	LT-DC	✓	✓	✓
4	AC RMS Voltage or Current	LT-RM	✓	✓	✓
5	Process Voltage or Current	LT-P	✓	✓	✓
6	Strain Gauge or Potentiometer Follower	LT-SG	✓	✓	✓
7	Load Cell & Microvolt Signals	LT-WM	✓	✓	✓
8	Thermocouple (Types J, K, T, E, N, R, S)	LT-TC	✓	✓	✓
9	RTD Temperature	LT-RTD	✓	✓	✓
10	Resistance in Ohms	LT-R	✓	✓	✓
11	Frequency, Rate, Speed	LT-FR	✓	✓	✓
12	Pulse Input Totalizer	LT-FR	✓	✓	✓
13	Process Signal Totalizer	LT-VF	✓	✓	✓
14	Sum, Difference, Ratio, Product of 2 Inputs	LT-FR	✓	✓	✓
15	On/Off Duty Cycle	LT-FR	✓	✓	✓
16	Stopwatch Timing for Single Events	LT-FR	✓	✓	✓
17	Average Time of Periodic Events	LT-FR	✓	✓	✓
18	AC Phase Angle and Power Factor	LT-FR	✓	✓	✓
19	Quadrature Position or Rate	LT-QD	✓	✓	✓

# DC DALEC CONTROLS INC

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## Dimensions

