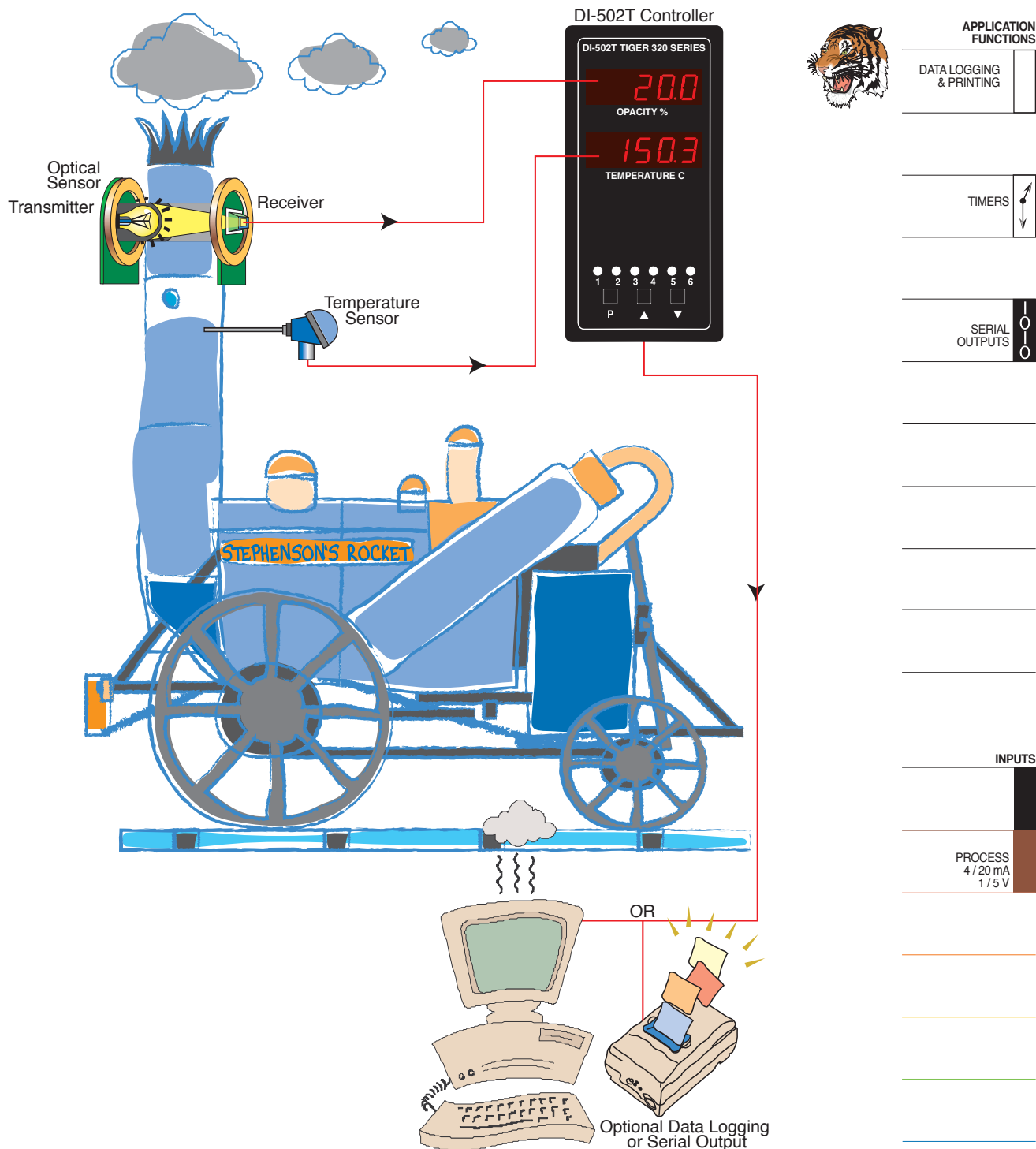With the mounting pressure to clean up the atmosphere, many local authorities are now legislating the maximum density of smoke released into the atmosphere from chimneys. They now require chimney output opacity (smoke density) and temperature to be monitored, averaged and recorded at one minute intervals with a date and time stamp.

Texmate installed a Tiger 320 Series DI-502T controller displaying the averaged opacity and minimum temperature readings. The controller can be programmed to either data log these readings every minute, or download them directly to a serial printer. After each download, the controller resets the readings for the next calculation and download.

SMOKE DENSITY AND TEMPERATURE MONITOR

DI-502T Controller

DI-502T TIGER 320 SERIES

20.0

OPACITY %

150.3

TEMPERATURE C

P ▲ ▼

Optical Sensor
Transmitter   Receiver

Temperature Sensor

STEPHENSON'S ROCKET

OR

Optional Data Logging or Serial Output

APPLICATION FUNCTIONS

DATA LOGGING & PRINTING

TIMERS

SERIAL OUTPUTS

INPUTS

PROCESS 4 / 20 mA 1 / 5 V

TEMPERATURE T/C, RTD

Suggested Ordering Code Options for This Application

Basic Order Codes	Comments
DI-502T-RR-PS1-IDP2-S2	Serial Communication to print directly
DI-502T-RR-PS1-IDP2-OR91	Data Logging to SD Card.
Note: Custom Smart App required. Charges vary depending on application. Contact Texmate.	