K-Factor Scaler
Frequency Divider

SPECIFICATIONS

External Power:

Input Voltage Maximum	8.5 to 30 VDC, diode protected
Current Draw	18 mA, using internal resistor @ 30 VDC input

Inputs:	Magnetic pick-up
Frequency Range	0-4000 Hz
Trigger Sensitivity	30 mV p-p to 30 V p-p

Output Signal: 30 VDC max voltage (open collector transistor) 0.25 W max power

Pulse type, using internal pull-up resistor;
V_H = power input voltage - 0.7 VDC
V_L = less than 0.4 V @ max input power

Pulse type, using external pull-up resistor;
V_H = input voltage to external pull-up resistor
$V_L = [V_H /(\text{selected resistor value} + 47\Omega)] \times 47\Omega$

Pulse length;
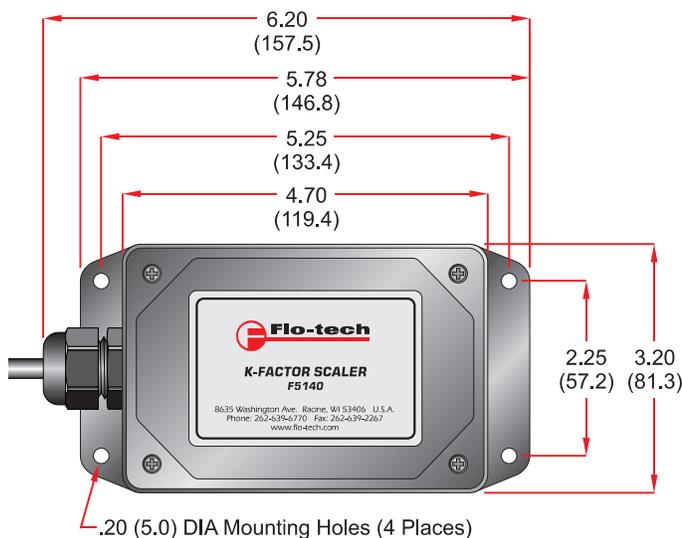150µs, 1ms, 25ms, 100ms, 500ms, 1s or auto mode selectable

Internal Pull-up Resistor: Jumper disable option 3.6K Ohm

Operating Temperature: -22 to +158 °F (-30 to +70 °C)

Enclosure: UL 94-5VA flame retardant ABS with mounting flanges

DIMENSIONS - Inches (mm)

6.20 (157.5)
5.78 (146.8)
5.25 (133.4)
4.70 (119.4)
2.25 (57.2)   3.20 (81.3)

.20 (5.0) DIA Mounting Holes (4 Places)

1.88 (47.8)

- Pre-amplifier for low level turbine meter
- Interface for pulse output devices to PLC, RTU, PC data acquisition card or similar devices
- Scale turbine meter output to desired engineering units
- On board microcontroller
- Internal or external pull-up resistor
- Compact ABS enclosure with mounting flanges
- Field adjustable (with optional software)
- K-factor range 1- 999,999,999

The K-Factor Scaler is a field adjustable frequency divider that converts the low level frequency output from a turbine meter into a scaled square wave output signal. This amplified, square wave output signal will interface with any frequency or counter input data collection device.

Due to the low level frequency signal of the FSC-375 and the Ultima F6202-F and F6222-F series turbine meters, the K-Factor Scaler is required to amplify the signal of these turbine meters for transmission to the Flo-tech F6600 and F6650 Series digital displays.

The K-Factor Scaler is also capable of converting the frequency output of a turbine meter into a different frequency, representing another unit of measure, such as liters, barrels, cubic feet, etc. This requires the optional programming software kit and the K-factor information unique to the turbine meter.

ORDERING INFORMATION

MODEL	PART NUMBER
K-Factor Scaler	F5140
Programming Software Kit	F5141