

DRE-MAX™ Smart Controller Quick Start Guide

This quick start guide provides information regarding installation of the DRE-MAX™ Smart Controller. Refer to the user manual for more information regarding software setup and operation. You may find the user manual on our website at: <https://cimarron.com/dre-max/>

Mounting the DRE-MAX™

The device is intended to be mounted in line with the wiring conduit. **Note:** Mounting specifics are left to the user given the wide ranging of configurations of end equipment.

Wiring the DRE-MAX™

NOTICE

The DRE-MAX™ must be wired according to the directions provided in this guide, and in compliance with the specifications of the operating company, as well as local codes, state and federal laws and regulations.

Guidelines

- Do not route wiring from other systems through the device enclosure
- Do not use solid core wires/cables
- Do not use wires larger diameter than 16AWG for the device terminal plugs

Recommendations

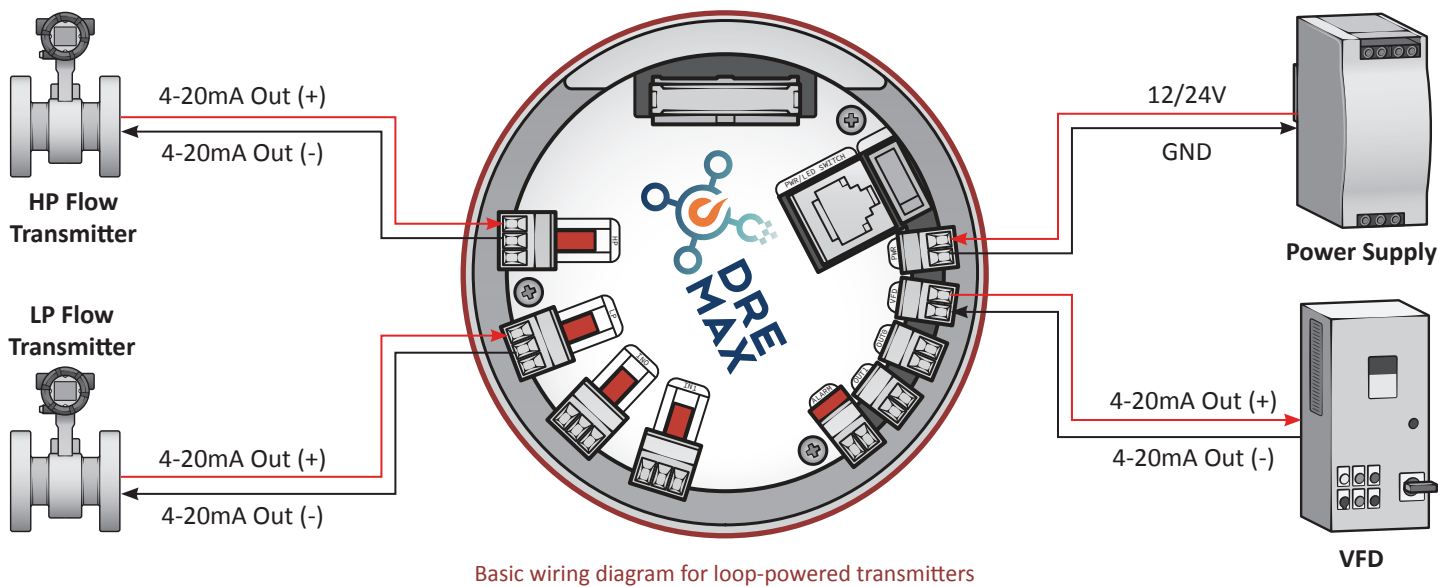
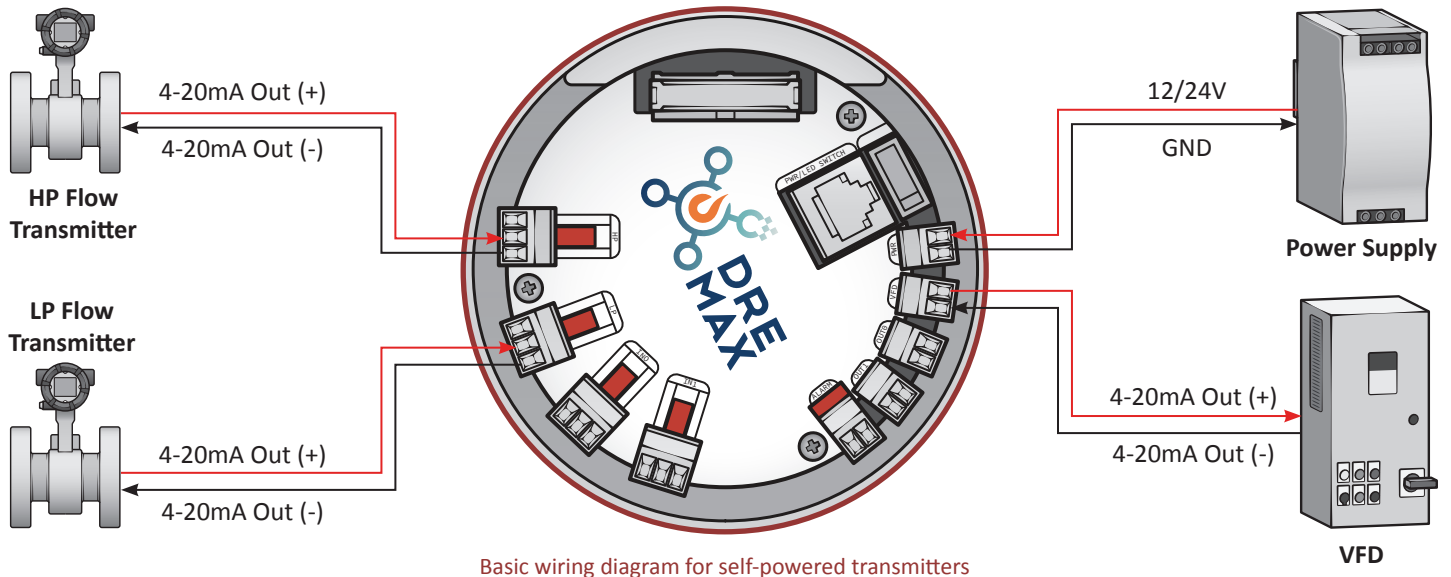
- Twisted pair cabling is strongly recommended
- It is strongly recommended to route 4-20mA signals together and away from power
- It is strongly recommended to route power cabling together and away from signal lines
- Ferrule terminations is strongly recommended for stranded wires/cables. The following are basic wiring diagrams for self powered, and loop-powered, transmitters.

The following table provides terminal information and descriptions of each port.

PORT	TERMINAL	DESCRIPTION
POWER	IN+	Input power positive terminal, nominally 12V or 24V.
	GND	Input power negative (ground) terminal.
PWR/LED SWITCH	RJ45	Connection to power switch and external LED.
IN0 (not used)	RET	4-20mA input signal return.
	IN	4-20mA input signal sink.
	PWR	Power for loop power transducer.
ADC 2	RET	4-20mA input signal return.
	IN	4-20mA input signal sink.
	PWR	Power for loop power transducer.
LP	RET	Low Pressure transducer 4-20mA input signal return.
	IN	Low Pressure transducer 4-20mA input signal sink.
	PWR	Power for loop power transducer.
HP	RET	High Pressure transducer 4-20mA input signal return.
	IN	High Pressure transducer 4-20mA input signal sink.
	PWR	Power for loop power transducer.
VFD	OUT	4-20mA output signal source to variable frequency drive.
	RET	4-20mA output signal return from variable frequency drive.

PORT	TERMINAL	DESCRIPTION
OUT0	OUT	DAC1 4-20mA output signal source.
	RET	DAC1 4-20mA output signal source.
OUT1	OUT	DAC1 4-20mA output signal source.
	RET	DAC1 4-20mA output signal source.
ALARM	OUT	Isolated Alarm Input sink.
	RET	Isolated Alarm Input return.
RS485 IN	B	RS485 B Signal
	A	RS485 A Signal

The following are basic wiring diagrams for self-powered, and loop-powered transmitters.



Maintenance & Service

Please contact Cimarron Energy, Inc. for information in regard to maintenance, parts, or service:

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<https://cimarron.com>