

General Specifications

Digital Pressure Transmitter

DSP – 100



◆QUALITY MANUFACTURER

For high pressure measurement [gage and absolute], DST DSP-100 Series offers combined repeatability and hysteresis errors that are typically below 0.25% of full scale. Long term minimization of these errors is maintained after millions of full scale overpressure cycles, making electronic set point virtually drift-free.

Use of ceramic materials in the sensing element and its mounting provides excellent resistance to most liquids and chemicals. Ruggedness and reliability are also enhanced by a stainless steel housing to resist corrosion. Pressure sealing for media compatibility is provided by selection of O-ring seals.

DST ceramic sensing element contains an integral, reliable, solid state, custom hybrid circuit signal conditioner. This circuit provides temperature compensation for a stable output through use of computer-controlled laser trimming of hybrid circuit components. Unit-to-unit uniformity is assured with no adjustment or recalibration required by the user. In addition, the DSP-100 is ideal for remote battery operation because of its low current drain and ratiometric output. The DSP-100 Series provides a high level output, which allows it in most cases to match low level indicators, scanners and data loggers. The ratiometric output of the DSP-100 is ideal for digital monitoring. By using the supply voltage as the reference for the conversion circuit, measurement accuracy is maintained regardless of supply voltage variations.

◆FEATURES

- Pressure Range :
0~1, 0~2, 0~4, 0~6, 0~10, 0~15,
0~20, 0~35, 0~50, 0~100, 0~160,
0~250, 0~350, 0~400 kg/cm²
-760~0mmHg, -1~9, -1~15kg /cm²
[Gage and absolute]
- Accuracy :
±0.25% [non-linearity repeatability,
hysteresis]
- Temperature coefficient [0.1% per 10°C]
may be optimized for a specific operating
temperature.
- Operating temperature Range : 0 °C to 85 °C

◆ADVANTAGES

- Ceramic and silicon sensing technology.
- Ceramic characteristics provide extremely low hysteresis and high repeatability.
- Ceramic and silicon sensor can directly withstand nearly all process media with temperatures up to 85 °C continuous

◆APPLICATION

- Process Control
- Petrochemical
- Transmissions
- Water Management
- Air Conditioning and Refrigeration
- Pneumatic and Hydraulic Controls
- Pump and Compressors
- Engine Monitoring and Test Equipment
- Agricultural Chemical Controls
- Environmental control Systems
- Level / Depth Instrumentation

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Web-site : www.greensensor85.com

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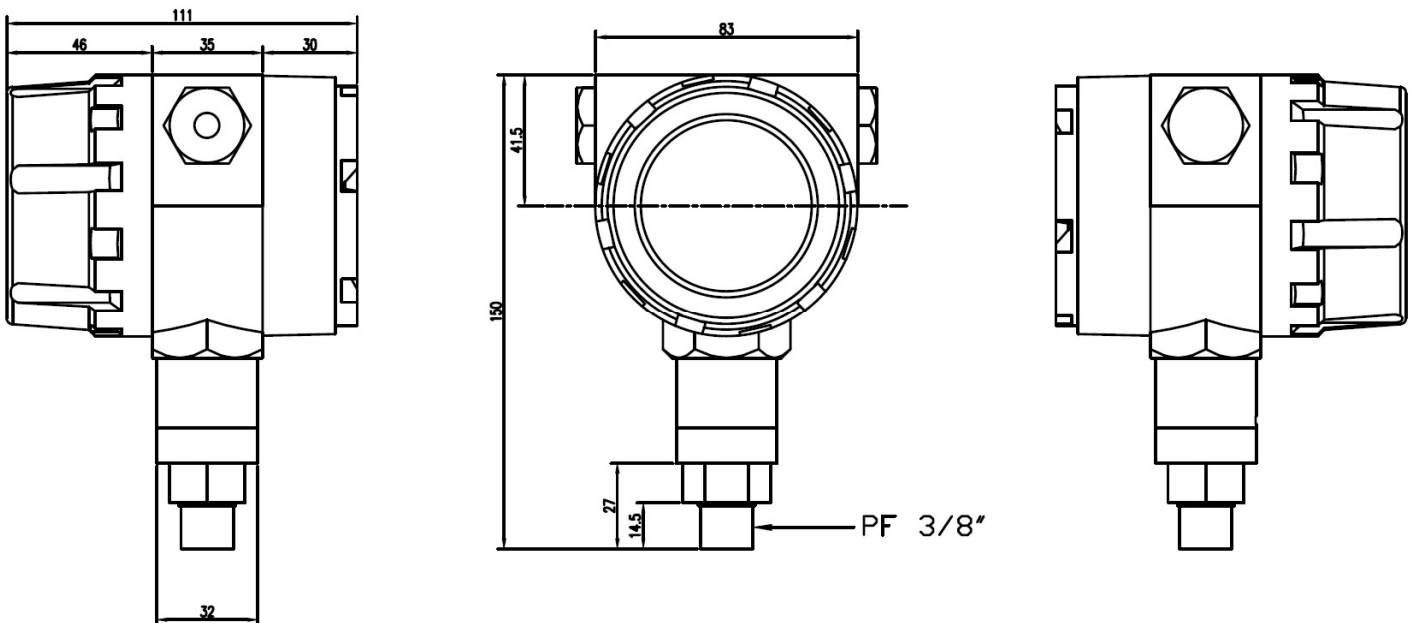
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◆DESCRIPTION

DISPLAY	5DIGIT 7SEGMENT LED
TEMPERATURE	0 ~ 85 °C
HUMIDITY	0 ~ 80% R.H
ACCURACY	±0.25%
OVER PRESSURE	300% F.S
PRESSURE CON'N	PT 1/4, 3/8, 1/2 or How to order
PROTECTION	IP65
WEIGHT	APPROX .(1100g)

◆DIMENSION



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Setting manual

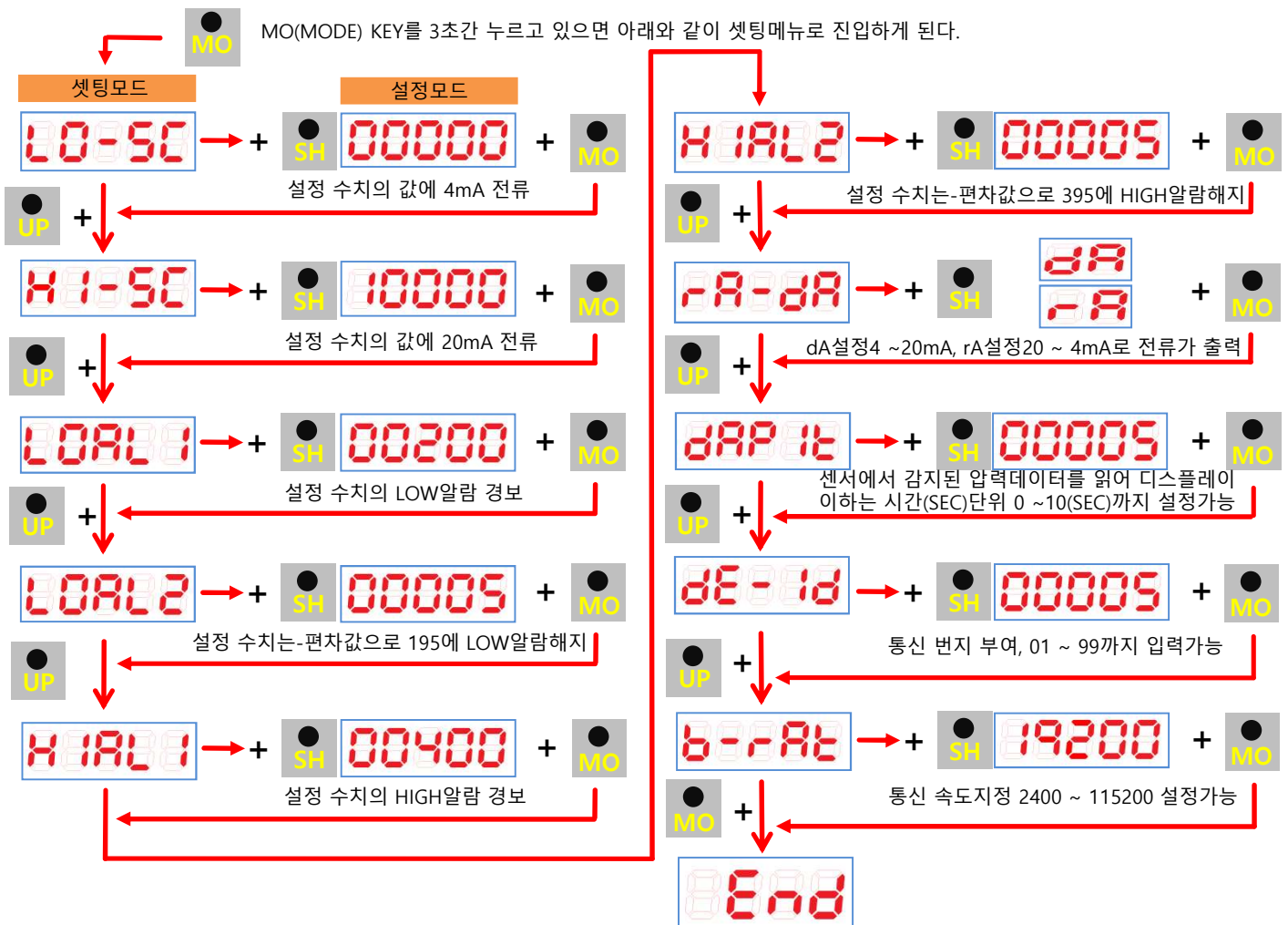
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1. KEY 의 기능

↑ UP	셋팅모드 진입후 KEY 를누를때 마다 셋팅모드 페이지가 증가한다 설정모드 진입후 설정수치의 값이 누를때 마다 증가한다
↓ DN	동작상태 에서 KEY 를 5초간 누르면 압력값이 ZERO 셋팅이 된다 (압력이 인가된 상태에선 조작금지) 설정모드 진입후 설정수치의 값이 누를때 마다 감소한다
→ SH	설정모드 진입후 설정수치 자리수가 누를때 마다 오른쪽으로이동을 한다 (1000, 100, 10, 1의 자리순)
↑ MO	동작상태 에서 KEY를 3초간 누르고 있으면 셋팅모드 로 진입한다 설정모드 에서 KEY를 누르면 셋팅모드, 한번더누르면 End 표시하고 동작상태로 종료된다

2. 셋팅메뉴의 구성 및 기능



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3. 영점보정 기능 및 UNIT 변환

Auto2

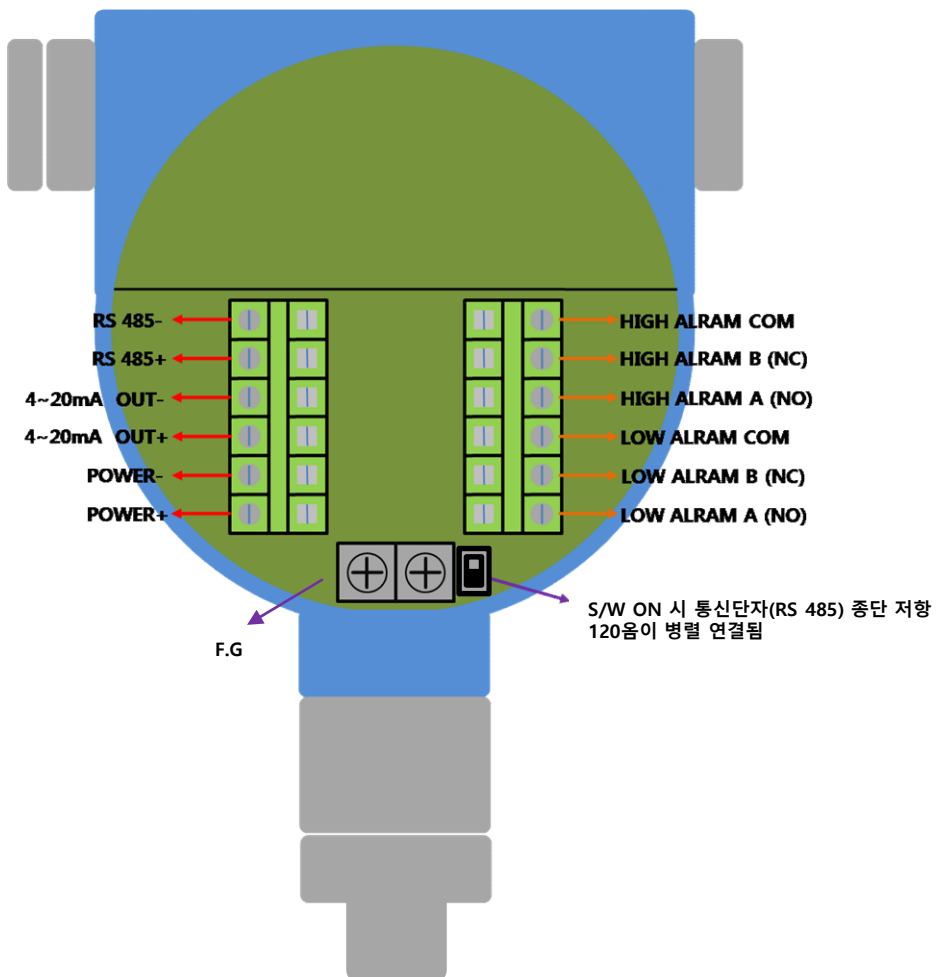


영점이 들어졌을 경우 DN KEY 를 5초간 누르고 있으며, 영점
조정이 된다. (압력을 인가하지 않았을 경우 사용해야함)



동작상태에서 KEY를 누를때 마다 압력단위가 변경되어
환산하여 압력을 표시한다. (Pa, Mpa, bar, PSI, mmHg, mmH2O, kgf/cm2)

4. 결선도



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