

HALL EFFECT (5Vdc) TRANSMITTER 6320S*107** or 6320S*207**

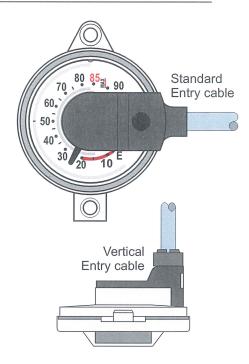
GENERAL DESCRITION:

The Hall Effect Twinsite[™] transmitter is a magneticallydriven Hall Effect, voltage output sender with potted wires and cable. Senders are utilized where direct reading plus an electrical signal to a remote level indication are required. Hall Effect is a solid state technology with no contacts. It counts on the fact that a magnet bends the path electrons moving through a semiconductor. This bending is detected and converted into ratiometric voltage output.

Many existing domestic storage tanks are equipped with gauge heaving a weak drive magnet suited for low friction direct-indicating dial assemblies. As the Hall Effect Twinsite[™] is a contactless sensor it can be utilized for a retrofit on those gauges to provide an electrical output which can be used for remote indication of tank levels.

The Hall Effect Twinsite[™] provide the easiest to read local indication by using a dial face divided into percentage units.

This Hall Effect Twinsite require a 5Vdc Power Supply. The housing, in UV stabilized plastic material, is hermetically sealed by ultrasonic welding and the electrical connections are sealed with potting material.



GENERAL SPECIFICATIONS:

Accuracy: ±4% for all types Hysteresys: less than 1% typical

Repetability: ±2% Resolution: Infinite

Operating Temperature: -20 to 65°C

Operating Voltage range: 5Vdc ± 0.5 With a decrease in accuracy of 1 to 2%, power range can

be extended to: 3.5 to 6Vdc

Consumption: typical 5 mA under 5Vdc

Output Voltage: Ratiometric (Ratiometric means that the output signal voltage is proportional with the input voltage (Vin) Under 5Vdc, 10% is 0.5V (or 10% of input voltage) 90% is 4.5V (or 90% of input voltage)).

Output Current: Max 1mA

MATERIAL OF CONSTRUCTION:

Crystal and case: polycarbonate, ultrasonic sealed

Dial: painted aluminium

WARNING:

If this equipment is used in a flammable area, it has to be powered by an intrinsically safe power supply.

WIRING:



The shield has to be wired to the receiver electrical ground.

APPROVAL:

(EX) II 2 G EEx ib IIB T4 EPL Gb APRAGAZ 10ATEX 0124X **C**€ 0029

If used in flammable area and powered by an Intrinsically Safe power supply with if Ui = 14Vdc, Ii=200mA, Li=4.8µH, Ci=123nF.



MODEL NUMBER:

The Hall Effect Twinsite™ Transmitters are available in two sizes to fit all Junior and Senior Rochester Gauges.

Transmitter with not shielded cable

Supplied in standard with 2 meters grey cable LiYY-OB 3x0.5mm² with blue, brown and black conductors.

This transmitter is used with battery operated receiver with intermittent power supply to the transmitter.

Impedance : 4.8µH
Capacitance : 123nF
Color of cable cover : Black

Cable Length : 50m maximum

The part number is: 6320S*107**

07**

E Standard entry cable

V Vertical entry cable (only with LiYY-OB 3x0.25mm²)

H Standard entry cable with a specific dial plate

Length of cable supply (1 or 2 digits)

0.5m to 20m by step of 0.5m

Dial type

Junior with hall effect Twinsite part number 5883S02714 or 5883S02877
 Senior with hall effect Twinsite part number 5952S02714 or 5952S02877

Transmitter with shielded cable

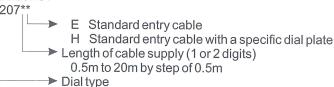
Supplied in standard with 2 meters shielded grey cable LiYCY-OB 3x0.75mm² with white, green and black conductors.

For use with ROCHESTER receiver CSU-M (4370S******) or permanent power supply and Intrinsically Safe Barrier (if necessary) wired with no more than 300m 3x0.75mm² cable.

Impedance : 4.8µH
Capacitance : 123nF
Color of cable cover : Green

Cable Length : 300m maximum

The part number is: 6320S*207**



8 Junior with hall effect Twinsite part number 5883S02714 or 5883S02877

9 Senior with hall effect Twinsite part number 5952S02714 or 5952S02877

DS-1318:

Best accuracy will be obtained using the calibration data in the table below, when powered in 5Vdc.

Graduation	Nominal Ref. (Volts)
E-Stop	0.29
E	0.49
10	0.64
20	1.15
30	1.53
40	1.98
50	2.5
60	3.02
70	3.5
80	3.9

Customer has to check the suitability of the sensor with his application.



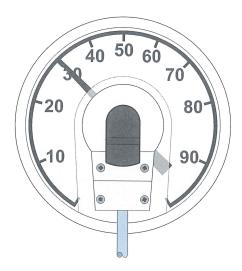
HALL EFFECT TRANSMITTER

6320S4107*E or 6320S4207*E (5Vdc) « 4" Senior gauges »

GENERAL DESCRITION:

This transmitter consists of a 4" dial for Senior Gauge (model 6290/6293) incorporating a Hall Effect Twinsite[™] which provides an electrical output for remote indication.

The Hall Effect Twinsite[™] requires a 5Vdc power supply.



GENERAL SPECIFICATIONS:

Accuracy: ±4% for all types Hysteresys: less than 3% typical

Repetability:±2% Resolution: Infinite

Operating Temperature: -20 to 65°C

Operating Voltage range: 5Vdc ± 0.5 With a decrease in accuracy of 1 to 2%, power range can

be extended at 3.5 to 6Vdc

Consumption: typical 5 mA under 5Vdc

Output Voltage: Ratiometric (Ratiometric means that the output signal voltage is proportional with the input voltage (Vin) Under 5Vdc, 10% is 0.5V (or 10% of input voltage) 90% is 4.5V (or 90%

of input voltage)).

Output Current: Max 1mA

MATERIAL OF CONSTRUCTION:

Crystal and case of twinsite: polycarbonate, ultrasonic sealed

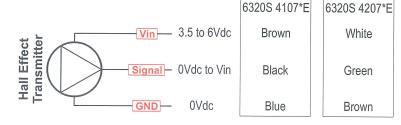
Crystal of dial: polycarbonate Case of dial: aluminium anodised

Bezel Ring: aluminium Dial: painted aluminium

WARNING:

If this equipment is used in a flammable area, it has to be powered by an intrinsically safe power supply.

WIRING:



The shield has to be wired to the receiver electrical ground.

APPROVAL:

(EX) II 2 G EEx ib IIB T4 EPL Gb APRAGAZ 10ATEX 0124X **C**€ 0029

If used in flammable area and powered by an Intrinsically Safe power supply with if Ui = 14Vdc, li=200mA, Li=4.8µH, Ci=123nF.



MODEL NUMBER:

This 4" Transmitter is designed for mounting on Rochester Gauges model 6290/6293.

Transmitter with not shielded cable

Supplied in standard with 4 meters grey cable LiYY-OB 3x0.5mm² with blue, brown and black conductors.

This transmitter is used with battery operated receiver with intermittent power supply to the

transmitter.

Impedance : 4.8µH
Capacitance : 123nF
Color of cable cover : Black

Cable Length : 50m maximum

The part number is: 6320S4107*E

Length of cable (1 or 2 digits) 0.5m to 20m by step of 0.5m

▶ Dial Plate with graduation 5 to 95% with hall effect Twinsite part number 5AANS02086

Transmitter with shielded cable

Supplied in standard with 4 meters grey cable LiYCY-OB 3x0.75mm² with white, brown and green conductors.

For use with ROCHESTER receiver CSU-M (4370S******) or permanent power supply and Intrinsically Safe Barrier (if necessary) wired with no more than 300m 3x0.75mm² cable.

Impedance : 4.8µH
Capacitance : 123nF
Color of cable cover : Black

Cable Length : 300m maximum

The part number is:

6320S4207*E

► Length of cable (1 or 2 digits) 0.5m to 20m by step of 0.5m

Dial type

4 Dial Plate with graduation 5 to 95% with hall effect Twinsite part number 5AANS02086

CALIBRATION CHART:

Best accuracy will be obtained using the calibration data in the table below, when powered in 5Vdc.

Graduation	Nominal Ref. (Volts)
5 10 20 30 40 50 60 70 80 90	0.18 0.54 1.03 1.39 1.88 2.44 3.03 3.57 3.97 4.42
95	4.82

 $Customer\,has\,to\,check\,the\,suitability\,of\,the\,sensor\,with\,his\,application.$