

(51) International Patent Classification:
G05B 19/418 (2006.01) *H04L 12/56* (2006.01)

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(21) International Application Number:
PCT/US2009/003616(74) Agent: **CHAMPLIN, Judson, K.**; Westman, Champlin & Kelly, P.A., 900 Second Avenue South, Suite 1400, Minneapolis, MN 55402-3319 (US).(22) International Filing Date:
17 June 2009 (17.06.2009)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/073,094 17 June 2008 (17.06.2008) US(71) Applicant (for all designated States except US): **ROSE-MOUNT INC.** [US/US]; 12001 Technology Drive, Eden Prairie, MN 55344 (US).

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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

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(54) Title: RF ADAPTER FOR FIELD DEVICE WITH LOW VOLTAGE INTRINSIC SAFETY CLAMPING

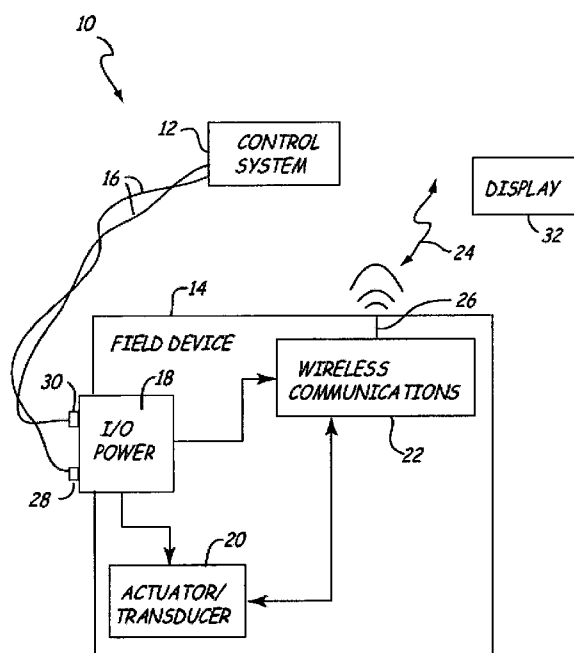


Fig. 1

(57) Abstract: An adapter (300) for coupling to a process control transmitter (308) of the type used to monitor a process variable in an industrial process includes a first connection configured to couple to a first side of a two wire process control loop (302), a second connection configured to couple to a second side of the two wire process control loop (302) and in series with a first connection to a process control transmitter (308), and a third connection configured to couple to a second connection of the process control transmitter (308). Wireless communication circuitry is coupled to at least the third connection and is configured to provide wireless communication for the process control transmitter (308). Intrinsic safety circuitry (460) coupled to at least one of the first, second and third connections is configured to limit transfer of electrical energy to a value which is less than an intrinsic safety value.



ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR),
OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*

Published:

— *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:

25 February 2010