

Turbine Meters Pick-Off Coils and Type 018EU Enclosure

PRODUCT DESCRIPTION

The ITT Barton Series 2100 Turbine Meter Pick-Off Coils and the Type 018EU Enclosure accompany the 818EU and 7000 Series Turbine Meters. Together, they are precise, reliable, rugged instruments manufactured to exacting Barton Standards. They are specifically designed for a wide range of industrial, commercial, pipeline and aerospace applications.

This Bulletin has been prepared to display the advantages of the ITT Barton Turbine Meter Pick-Off Coils over traditional measurement instruments and to aid in proper sizing and selection.



2112 Pick-Off Coil

Type 2113 Intrinsically Safe Pick-Off Coil

The Type 2113 reluctance pick-off coil is supplied for intrinsically safe applications where long transmission distances involving type 818EU Pre-Amplifiers are not required.

With Zener barriers, it is certified by BASEEFA to their standard SFA 3012: 1972, Code Exia IIC.

Specifications

TEMPERATURE RATING:	-10° to +120°C (-15° to +250°F)
D.C. RESISTANCE:	1665Ω nominal
INDUCTANCE:	5500mH nominal
DIELECTRIC RATING:	500 Vac rms minimum
INSULATION RATING:	100MΩ at 250V
OUTPUT VOLTAGE:	0.05-1.5V, dependent upon meter size

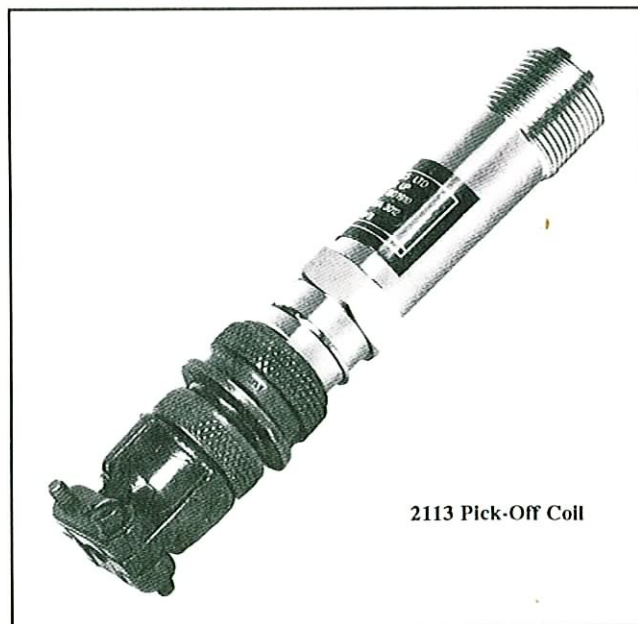
DESCRIPTION OF OPERATION

Type 2112 Reluctance Pick-Off Coil

The Type 2112 standard reluctance pick-off coil is supplied as standard on Barton type 7000 Turbine Meters. When used in conjunction with the Type 818EU Pre-Amplifier, intrinsically safe applications can be handled.

Specifications

TEMPERATURE RATING:	-260° to +260°C (-435° to +500°F)
D.C. RESISTANCE:	1200Ω nominal
INDUCTANCE:	750 mH nominal
DIELECTRIC RATING:	500 Vac rms minimum
INSULATION RATING:	100MΩ at 50V
OUTPUT VOLTAGE:	0.05-5V, dependent upon meter size



2113 Pick-Off Coil



2114 Pick-Off Coil

Type 2114 High Temperature Pick-Off Coil

The Type 2114 high temperature reluctance pick-off coil is supplied for applications having temperatures exceeding 260°C (+500°F).

It is supplied with 3 ft. (0.9m) steel-braided output leads welded onto the coil output terminals.

Specifications

TEMPERATURE RATING:	-260° to +450°C (-435° to +850°F) intermittently to +530°C (+1000°F)
D.C. RESISTANCE:	1200Ω nominal
INDUCTANCE:	450 mH nominal
DIELECTRIC RATING:	500 Vac rms minimum
INSULATION RATING:	100MΩ at 50V
OUTPUT VOLTAGE:	0.05-5V, dependent upon meter size

Type 018EU Enclosure

The Model 018EU pick-off coil enclosure is intended for use in hazardous areas with the additional facility of providing protection for the pick-off coil from environmental and accidental damage. The enclosure also allows electrical connections to be made to the pick-off coil.

This rugged, compact, weatherproof and explosion-proof conduit mounts directly on the turbine meter pick-off coil boss, whilst the threaded front cover provides easy access to the pick-off coil and electrical connections to the meter.

Electrical connections are 1/2 in NPT & 20mm ISO female threads.

- Prevents accidental damage to pick-off coil.
- Small and robust, mounts directly on meter housing.
- Flameproof to CENELEC standards EN50 014 & EN50 018 (BS5501 PTS 1 & 5) EExd IIC T6.
- Weatherproof and dustproof - IEC 529: 1976 (BS.5490: 1977 IP65)

The ITT Barton standard warranty is available for inspection upon request.

YOUR LOCAL REPRESENTATIVE

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