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Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
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Иваново (4932)77-34-06

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Иркутск (395)279-98-46
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Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
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Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

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Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
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Казахстан (772)734-952-31

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IRD



STRAIGHT TO THE (SAMPLE) POINT

For real-time natural gas analysis of high-volume lines, you need a sample probe that can deliver a continuous supply of representative samples to your analyzer at the appropriate pressure. The Welker Original IRD Probe Regulator mounts directly to a hot tap or mating flange on your depressurized pipeline and has a fixed insertion length to extract the most representative sample from the center one-third of the source stream.

Complies With API 14.1, GPA 2166, ISO 10715
Share

Probe

**SAMPLE THE CENTER ONE-THIRD
OFF THE WALL**

Avoid the pipe walls and get to the heart of the source stream. Extending into the center one-third of your pipeline, the IRD captures samples representative of the flowing stream and leaves free liquids behind.

Regulator

**SAMPLE REGULATION IN FULL FLOW
NO TIME TO LOSE**

When inserted into the center one-third of your pipeline, the tip of the IRD regulates your sample under flowing conditions. In-pipeline pressure regulation and the low internal volume of the IRD reduce lag time and get your sample to the analyzer faster. With less time in the sample line, ambient conditions don't have the opportunity to negatively affect your sample.

**PIPELINE CONNECTION OPTIONS
WHAT'S YOUR TYPE?**

NPT or flanged? With a variety of sizes and ratings from 150 up to 2500 ANSI available, Welker can make the connection.

THERMAL ENERGY TRANSFER
TAKE SOME HEAT

Thermal fins add surface area to the probe tip, allowing pipeline gas to transfer some of its thermal energy to the regulated sample. This additional heat mitigates the cooling caused by pressure drops (Joule-Thomson effect) and helps prevent the sample from condensing.

PRECISE REGULATOR SETTINGS
FINE ADJUSTMENT

Analytical devices require samples to be injected at a controlled pressure considerably lower than pipeline pressure. Capable of precise settings at low output pressures, diaphragm-operated IRDs keep your analysis going and protect your sensitive equipment from costly damage and downtime caused by high or fluctuating sample pressure.

SPRING RANGE KIT
KIT AND CABOODLE

Add the Welker Spring Range Kit to your IRD-4SS purchase, and you'll further increase its functionality. With a set of three springs to choose from, you can easily change the pressure control range of the IRD-4SS for a new application.

SPECIFICATIONS

IRD PROBE REGULATOR

	IRD
Materials of Construction	316/316L Stainless Steel, PTFE, and Viton® Others Available
Connections	Outlet: 1/4" FNPT Pipeline: 1/2", 3/4", 1", or 2" MNPT
Output Range	IRD-4: 0-25 psig, 0-50 psig, 20-100 psig, 75-200 psig IRD-6: 250-1500 psig
Insertion Length	2.2" Standard for 2" and 3" Pipe 3.6" Standard for 4" and 6" Pipe 5.9" Standard for 8", 10", and 12" Pipe Others Available 3.6" Standard for 4" and 6" Pipe 5.9" Standard for 8", 10", and 12" Pipe Others Available
Flow Coefficient (Cv)	IRD-1, IRD-2, and IRD-6: 0.092 IRD-4: 0.138
Operation	IRD-1 and IRD-4: Diaphragm-Operated IRD-1, IRD-2, and IRD-6: Piston-Operated
Operating Pressure	IRD-1, IRD-2, and IRD-6: 5000 psig @ -20 °F to 100 °F IRD-4: 3600 psig @ -20 °F to 100 °F

Options

Extreme Service Tip
High-Flow
Insulation Blanket
Pre-Set Regulator
Pre-Set Relief Valve
Pressure Gauge
Relief Valve
CE Compliance
CRN Certification

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