

# FMC Technologies Ultrasonic Technology

MPU 200, 600, 800 and 1200 Gas Ultrasonic Flowmeters



**MPU 1200 Gas Ultrasonic Flowmeter**  
Transducer and cable protection covers are standard for UL/CUL units but are an option for ATEX units.

## Reference List



Flow Calibration at CEESI, IA, USA



Moss Bluff, TX, USA

Delivery Year	Project/Client/Location	Description
2010	NORDSTREAM PIPELINE – VYBORG NORDSTREAM Russia	Four 28" MPU 1200 Series B.
2010	HYDERABAD – NIRMAL GAIL India	One 14" MPU 800 Series B.
2010	PETRONECT 7000452086 PETROBAS Brazil	One 12" MPU 600 Series B.
2010	TYRA EAST MAERSK Denmark	Two 18" MPU 1200 Series B. Three 12" MPU 1200 Series B.
2010	GOLENIOW OGP GAZ-SYSTEM S.A. Poland	One 16" MPU 1200 Series B. Three 12" MPU 1200 Series B.
2010	PSTSC-PR-575-09 PROSERTEC Bolivia	One 6" MPU 800 Series B.
2010	ROZWADOW OGP Gaz-System S.A. Poland	Two 16" MPU 1200 Series B.
2010	L&T OMAN GAS COMPANY Oman	One 18" MPU 200 Series B.
2010	ODOLANOW OGP GAZ-SYSTEM S.A. Poland	Two 12" MPU 1200 Series B.
2010	GASSAVTOMATIKA Russia	Eleven MPU 200 Series B kits. Thirteen MPU 200 Series B kits. Three MPU 1200 and six MPU 200 Series B kits. Ten MPU 200 Series B kits. Ten MPU 200 Series B kits.
2010	KOLLSNES STATOIL Norway	One 4" MPU 800 Series B.

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MPU 200, 600, 800 and 1200 Gas Ultrasonic Flowmeters



MPU 1200 V6 design  
Ultrasonic Meter

## Reference List



Statoil KUP, Norway



Complete Station, Statoil KUP,  
Norway

Delivery Year	Project/Client/Location	Description
2010	Yuzhno-Russkoye SEVERNEFTEGAZPROM Russia	One 20" MPU 1200 Series B.
2010	NORD STREAM NORD STREAM Germany	Two 38" MPU 1200 Series B.
2010	NIRMAL SONEPAT GAS AUTHORITY OF INDIA LTD. India	Two 10" MPU 1200 Series B.
2009	ROYAL COMMISSION - YANBU ALDERLEY FZE SAUDI ARABIA	One 12" MPU 800 Series B.
2009	RAKGAS GCGE UAE	One 12" MPU 800 Series B.
2009	BEIJING GAS PROJECT TIANJIN BEST PETROLEUM China	Two 12" MPU 1200 Series B.
2009	GATE LNG TERMINAL MAASVLAKTE Holland	Six 24" MPU 1200 Series B.
2009	JELENIOW Poland	Three 8" MPU 1200 Series B.
2009	ZARZEKOWICE Poland	One 6" MPU 1200 Series B. Two 8" MPU 1200 Series B. Two 10" MPU 1200 Series B.
2009	YUGTRANSGAZ Russia	Four MPU 200 Series B kits. Four MPU 200 Series B kits. Fourteen MPU 200 Series B kits. Fifteen MPU 200 Series B kits.
2009	BEIJING GAS PROJECT TIANJIN BEST PETROLEUM China	Two 10" MPU 1200 Series B. Two 12" MPU 1200 Series B.
2009	EUROPOL GAZ S.A. Poland	One 48" MPU 1200 Series B (weld/weld).
2009	SHARAN GAZPROM Russia	Twenty-one 16" MPU 1200 Series B.
2009	BODANDINSKAYA GAZPROM	Seven 16" MPU 1200 Series B.

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MPU 200, 600, 800 and 1200 Gas Ultrasonic Flowmeters



MPU 600 3 Path  
Ultrasonic Meter

## Reference List

Delivery Year	Project/Client/Location	Description
2009	Russia DZUARIKAY PIPELINE GAZPROM Russia	Two 10" MPU 1200 Series B.
2008	GASEODUCTO GUARACHI EMPRESA ELECTRICA GUARACACHI S.A. Bolivia	One 6" MPU 1200 Series B.
2008	CZESTOCHOWA GAZOBUDOWA Poland	One 8" MPU 1200 Series B.
2008	BOTAS SIVAS COMPRESSOR STATION TERMIS TES. SAN. VETIC A.S. Turkey	One 48" MPU 1200 Series B.
2008	GAS AUTHORITY OF INDIA, LTD. India	Two 8" MPU 1200 Series B. Two 10" MPU 1200 Series B. Two 12" MPU 1200 Series B.
2008	HANAK BOTAS Turkey	One 42" MPU 1200 Series B.
2008	ABU DHABI FERTILIZER PLANT FERTIL UAE	One 10" MPU 1200 Series B.
2008	DAQING CALIBRATION STATION NATIONAL STATION OF PETROLEUM FLOW MEASUREMENT China	One 12" MPU 1200 Series B.
2008	SHANXI QUINSHUI BASIN COAL GAS PROCESS CENTER Petrochina Huabei China	Two 10" MPU 1200 Series B.
2008	SKARV STATOILHYDRO Norway	One 4" MPU 600 Series B in Duplex. Two 6" MPU 600 Series B in stainless steel. Three 10" MPU 1200 Series B in Duplex.
2008	CORUM BOTAS/OZTAS Turkey	One 48" MPU 1200 Series B.
2008	KOLLSNES STATOIL Norway	Two 10" MPU 1200 Series B.

# FMC Technologies Ultrasonic Technology

MPU 200, 600, 800 and 1200 Gas Ultrasonic Flowmeters



**MPU 200  
Single Path  
Ultrasonic Meter**

## Reference List

<b>Delivery Year</b>	<b>Project/Client/Location</b>	<b>Description</b>
2008	AL WAHA SAUDI PETROLEUM/ALDERLEY Saudi Arabia	Two 8" MPU 1200 Series B in stainless steel.
2008	GULLFAKS A STATOIL Norway	Two 8" MPU 1200 Series B in Duplex.
2008	PETRONET India	One 12" MPU 1200 Series B.
2008	GJØA STATOIL Norway	One 4" MPU 600 Series B in Duplex. One 6" MPU 600 Series B in Duplex. Three 12" MPU 1200 Series B in Duplex. Two 4" MPU 600 Series B in Duplex. Two 14" MPU 1200 Series B in Duplex.
2007	XIAN SHANXI NATURAL GAS COMPANY China	One 12" MPU 1200 Series B.
2007	ORMEN LANGE NORSKE HYDRO Norway	One 6" MPU 1200 Series B.
2007	SARATOV GASAVTOMATIKA Russia	Two 8" MPU 1200 Series B. Two 10" MPU 1200 Series B.
2007	SMART AKER/RELIANCE India	Two 8" MPU 1200 Series B. One 10" MPU 600 Series B in Duplex.
2007	RIYADH POWER PLANT SAUDI ELECTRICITY COMPANY Saudi Arabia	One 30" MPU 1200 Series B
2007	NORTH RF IMPROVEMENT PHASE 1 PDO Oman	One 6" MPU 600 Series B.
2007	Mongstad STATOIL Norway	Two 8" MPU 1200 Series B.
2007	YEMEN LNG AMEC SPIE/YEMEN LNG CO. Yemen	Three 16" MPU 1200 Series B ultrasonic custody transfer meters.
2007	YUZHNO-RUSSKOYE GAS SEVERNEFTEGASPROM/ WINTERSHALL Russia	Four 20" & two 6" MPU 1200 Series B ultrasonic custody transfer meters.

# FMC Technologies Ultrasonic Technology

MPU 200, 600, 800 and 1200 Gas Ultrasonic Flowmeters



MPU 1200 6 Path  
Ultrasonic Meter

## Reference List

Delivery Year	Project/Client/Location	Description
2007	PETROVSK-FROLOVO GASPROM YUGTRANSGAZ Russia	Four 30" MPU 1200 Series B ultrasonic custody transfer meters.
2006	BEIJING TRANSMISSION BEIJING GAS TRANSPORTATION CO. China	Four 12" MPU 1200 Series B ultrasonic custody transfer meters.
2006	BVS/MUKHAIZNA GAS PIPELINE OCCIDENTAL Oman	One 18" MPU 1200 Series B ultrasonic custody transfer meter.
2006	BLOCKS A+B UNOCAL TRANSPORTATION The Netherlands	One 10" MPU 1200 ANSI 900 RTJ ultrasonic custody transfer meter.
2006	TPAO - TURKIYE PETROLLERI A.O. BATMAN Turkey	One 4" MPU 600 Series B stainless steel.
2006	KAILRAS MALANPUR GAIL/MADHYA PRADESH India	Two 6" MPU 1200 Series B ultrasonic custody transfer meters.
2006	KASHAGAN AGIP/KCO Kazakhstan	One 16" MPU 1200 Series B ultrasonic custody transfer meter.
2006	THULENDI PHULPHUR PIPELINE GAIL/TORMENE India	Two 10" MPU 1200 Series B ultrasonic custody transfer meters.
2005	JING RIVER-XIAN GAS TRANSMISSION SHANNXI HUASHAN CSTD CO. China	Three plus one 12" MPU 1200 Series B ultrasonic custody transfer gas meters
2005	UNDERGROUND STORAGE FACILITY PGNIGG Poland	One 16" MPU 1200 Series B ultrasonic custody transfer gas meter.
2005	YUGTRANSGAZ GAZPROM Russia	113 MPU 200 Series B ultrasonic single path meters.
2005	EASINGTON LRF CENTRICA Easington UK	Four 24" MPU 1200 Series B ultrasonic custody transfer gas meters.
2004	TELFER GAS NET Australia	One 6" MPU 1200 Series B ultrasonic custody transfer gas meter.

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## MPU 200, 600, 800 and 1200 Gas Ultrasonic Flowmeters

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<b>Delivery Year</b>	<b>Project/Client/Location</b>	<b>Description</b>
2004	ZAPOLYARNAYA OJSC GAZPROM Russia	One 4" MPU 200 Series B ultrasonic single path meter.
2004	CHAMBERSBURG M&R DOMINION TRANSMISSION USA	One 4" MPU 600 Series B ultrasonic gas meter.
2004	PESTSOVOE FIELD GAS PLANT GAZPROM Russia	Twenty-one 16" MPU 200 Series B ultrasonic single path meters.
2004	ZAPOLYARNAYA 3.2 and 3.3 OJSC GAZPROM Russia	Eight 30" MPU 1200 Series B ultrasonic custody transfer meters.
2004	URENGOY OJSC GAZPROM Russia	Three 30" MPU 1200 Series B ultrasonic custody transfer meters.
2003	TRACTBEL RESIDUAL GAS DEVON ENERGY CORP. Bridgeport, Texas USA	One 10" MPU 1200 Series B ultrasonic custody transfer meter.
2003	KEP STATOIL Norway	One 20" MPU 1200 Series B ultrasonic custody transfer gas meter.
2003	JOTUN A - BALDER TIE-IN ESSO/EXXONMOBIL Offshore, Norway	Two 4" MPU 600 Series B ultrasonic allocation gas meters.
2003	HAZIRA PORT & LNG TERMINAL HAZIRA LNG PRIVATE India	Two 16" MPU 1200 Series B ultrasonic custody transfer gas meters.
2003	EAST RHOME COMPRESSOR STATION DEVON ENERGY CORP. Rhome, Texas, USA	One 12" MPU 1200 Series B ultrasonic custody transfer gas meter.
2003	AL AIN FUJAIRAH GAS PIPELINE DOLPHIN ENERGY LTD. Al Ain Fujairah - Abu Dhabi	One 24" MPU 600 Series B ultrasonic custody transfer gas meter stainless steel SS316L material.
2003	CAMPUS BASIN PETROBRAS Brazil	Two 6" MPU 600 Series B ultrasonic custody transfer gas meters.
2003	CLYDE TIE-IN UNOCAL NETHERLANDS	One 10" MPU 1200 Series B ultrasonic custody transfer gas meter.

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## MPU 200, 600, 800 and 1200 Gas Ultrasonic Flowmeters

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<b>Delivery Year</b>	<b>Project/Client/Location</b>	<b>Description</b>
	The Netherlands	
2003	HALFDAN DUC Offshore, Denmark	One 12" MPU 1200 Series B ultrasonic custody transfer gas meter.
2003	RINGHORNE JURASSIC ESSO/ExxonMobil Offshore, Norway	Two 6" MPU 1200 Series B ultrasonic custody transfer gas meters.
2003	KRISTIN STATOIL Offshore, Norway	Two 12" MPU 1200 Series B ultrasonic custody transfer gas meters. High strength stainless steel material.
2002	KULAK GAS BORDER STATION BOTAS Turkey	One 36" MPU 1200 ultrasonic custody transfer gas meter.
2002	BARKA SPURLINE AND PRT OMAN GAS CO. Oman	Two 12" MPU 1200 ultrasonic custody transfer gas meters.
2002	YANBU SAUDI ARAMCO Saudi Arabia	Four 36" MPU 1200 ultrasonic custody transfer gas meters. Stainless steel SS316L material.
2002	KNOC DONGHAE KOREAN NATIONAL OIL CO. Offshore, Korea	Two 8" MPU 1200 ultrasonic custody transfer gas meters.
2002	HAMACA UPSTREAM PROJECT PETROLERA AMERIVEN Venezuela	One 8" MPU 1200 ultrasonic custody transfer gas meter.
2001	KVITEBJORN STATOIL Offshore, Norway	Two 14" MPU 1200 ultrasonic custody transfer gas flow meters. Wet gas design. Duplex material.
2001	RIYADH FUEL GAS SYSTEM SAUDI ARAMCO Saudi Arabia	One 12" MPU 1200 ultrasonic custody transfer gas flow meter.
2001	BLUE STREAM, BEREGOVAYA GAZPROM Russia	Two 20" MPU 1200 ultrasonic custody transfer gas flow meters for leak detection.
2001	DESALINATION PLANT KCC PROCESS EQUIPMENT U.A.E.	One 10" MPU 1200 ultrasonic custody transfer gas flow meter.

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## MPU 200, 600, 800 and 1200 Gas Ultrasonic Flowmeters

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<b>Delivery Year</b>	<b>Project/Client/Location</b>	<b>Description</b>
2001	SLEIPNER A STATOIL Offshore, Norway	One 16" MPU 1200 ultrasonic custody transfer gas flow meter, replacing older version FMU 700.
2000	CALIBRATION FACILITY CEESI Ventura, IA	One 30" MPU 1200 ultrasonic custody transfer gas flow meter, reference meter at calibration facility.
2000	PEOPLE'S ENERGY Illinois, USA	One 16" MPU 1200 ultrasonic custody transfer gas flow meter.
2000	WEST NATUNA BLOCK B CONOCO Indonesia	Four 8" MPU 1200 ultrasonic gas flow meters.
2000	MOSS BLUFF GAS STORAGE FACILITY MARKET HUB PARTNERS Texas, USA	One 12" MPU 1200 ultrasonic custody transfer gas flow meter.
2000	GULLFAKS C STATOIL Offshore, Norway	Two 12" MPU 1200 ultrasonic custody transfer gas flow meters mounted in parallel. One 12" MPU 1200 as insurance spare part. Duplex material.
2000	GULLFAKS A STATOIL Offshore, Norway	Two 12" MPU 1200 ultrasonic custody transfer gas flow meters mounted in parallel. Duplex material.
1999	KUP STATOIL Norway	Two plus two 20" MPU 1200 ultrasonic custody transfer gas flow meters mounted in parallel.
1999	JOTUN FPSO ESSO Offshore, Norway	Two 6" MPU 1200 ultrasonic custody transfer gas flow meters mounted in series for bi-directional operation.
1999	AASGARD B (FMU) STATOIL Offshore, Norway	Two plus one spare 20" FMU 700 ultrasonic custody transfer gas flow meters mounted in series.
1998	OSEBERG GAS (FMU) HYDRO Offshore, Norway	Two 20" FMU 700 ultrasonic custody transfer gas flow meters in series.
1996	SLEIPNER (FMU) STATOIL Offshore, Norway	One 16" FMU ultrasonic custody transfer gas flow meter delivered by KOS/Fluenta.
1995	OSEBERG SØR (FMU) HYDRO Offshore, Norway	One 6" FMU 700 ultrasonic custody transfer gas flow meter delivered by Fluenta.