

## ...Transmitter specification

### Hart communications

#### Version

5.7 as standard

#### Integration

- Device Type Manager (DTM) and Electronic Device Description (EDD)
- Provide online/offline device configuration, online monitoring of measurement values and diagnostic states

#### DTM

- FDT v1.2.1 compliant
- Works with FDT framework packages (for example, ABB Asset Vision Basic)

#### EDD

Compliant with suitable framework tools (for example, SDC 625 and Simatic PDM tools)

### Infrared service port

#### Accessibility

Through front face

#### Type:

IrDA standard

#### Baud rate

Up to 115 K baud

#### Functions

- Firmware update
- Remote HMI
- Diagnostic log download
- Datalog output
- HART via IrDA

### Languages

English

German

French

Spanish

Italian

### Calibration

#### Manual calibration

- 1 point (offset)
- 1 point (factor)
- 2 point (offset + factor)

#### Automatic calibration

- 1 point (offset)
- 2 point (offset + factor)

#### Calibration control

- Front panel controls
- Digital inputs
- HART commands
- User-defined schedule

#### Calibration scheduler

User-defined schedule enables automatic calibration frequency to be set from 1 day to 12 months

## Part numbers for Endura AZ20 and AZ20/ZFG2 replacement heaters, thermocouple/electrode assemblies and ABB flowmeters

Probe length	Part number
0.5 m (1.7 ft)	AZ200 710
1.0 m (3.3 ft)	AZ200 711
1.5 m (5.0 ft)	AZ200 712
2.0 m (6.6 ft)	AZ200 713
2.5 m (8.2 ft)	AZ200 714
3.0 m (9.9 ft)	AZ200 715
3.5 m (11.5 ft)	AZ200 716
4.0 m (13.1 ft)	AZ200 717

Endura AZ20 – standard heater assembly

Probe length	Part number
0.5 m (1.7 ft)	AZ200 720
1.0 m (3.3 ft)	AZ200 721
1.5 m (5.0 ft)	AZ200 722
2.0 m (6.6 ft)	AZ200 723

Endura AZ20/ZFG2 replacement probe – heater assembly

Probe length	Part number
0.5 m (1.7 ft)	AZ200 701
1.0 m (3.3 ft)	AZ200 702
1.5 m (5.0 ft)	AZ200 703
2.0 m (6.6 ft)	AZ200 704
2.5 m (8.2 ft)	AZ200 705
3.0 m (9.9 ft)	AZ200 706
3.5 m (11.5 ft)	AZ200 707
4.0 m (13.1 ft)	AZ200 708

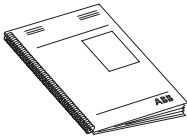
Thermocouple/Electrode assembly

Probe length	Part number
¼ NPT flowmeter (reference air): 0.1 to 0.85 l/min (0.21 to 1.8 scfh) STP	AZ200 786
¼ BSP flowmeter (reference air): 0.1 to 0.85 l/min (0.21 to 1.8 scfh) STP	AZ200 787
¼ NPT flowmeter (test gas): 0.6 to 4.4 l/min (1.27 to 9.32 scfh) STP	AZ200 788
¼ BSP flowmeter (test gas): 0.6 to 4.4 l/min (1.27 to 9.32 scfh) STP	AZ200 789

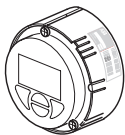
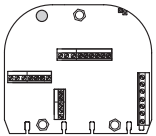
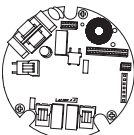
ABB Flowmeters NPT/BSP

## Spares and accessories

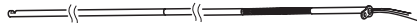
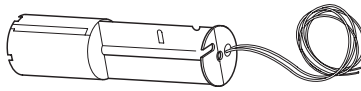
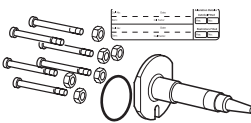
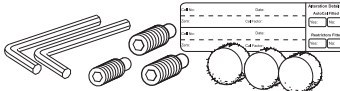

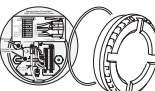

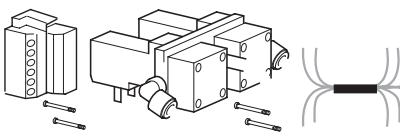
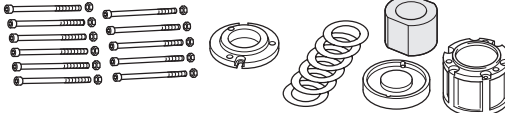


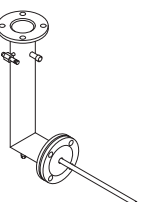
### Documentation and software

Part number	Description
MI/AZ30M-EN	Maintenance Guide
	 <p>Download* the guide from:</p> <p><a href="http://www.ABB.com/analytical-instruments">www.ABB.com/analytical-instruments</a></p> <p>*Enter this address in your browser and then type <b>IM/AZ20M-EN</b> in the search box – the Maintenance Guide is the top link.</p>
AZ20 DTM Software	Device Type Manager – contact ABB for details

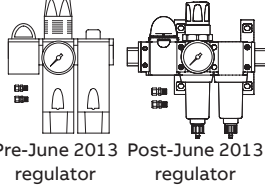
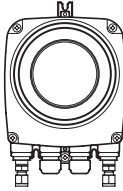
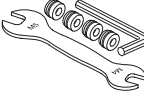
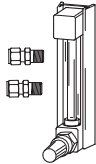
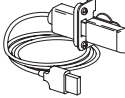

### Transmitter spares

Part number	Description
AZ200 750	AZ20 Transmitter cartridge <ul style="list-style-type: none"> <li>• Standard</li> <li>• Standard + Analog O/P</li> <li>• Standard + Digital O/P</li> </ul> 
AZ200 751	
AZ200 752	
AZ200 758	Remote (type 4) Transmitter backplane 
AZ200 757	Integral (type 3) Transmitter backplane 

### Probe spares

Part number	Description
Length dependant – see page 25 for part numbers	Thermocouple/electrode assembly 
Length dependant – see page 25 for part numbers	AZ20 standard heater assembly AZ20/ZFG2 replacement heater assembly 
AZ200 700	Cell assembly – includes C-ring and commissioning label 
AZ200 727	Restrictor upgrade kit 
AZ200 728	Probe end cap – includes wiring labels <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>AZ20 version</p> </div> <div style="text-align: center;">  <p>AZ20/ZFG2 replacement version</p> </div> </div>
AZ200 729	Diffuser assembly – includes C-ring 
AZ200 730	AutoCal upgrade assembly 
AZ200 737	Large surface area filter upgrade kit 
AZ200 747	Large surface area filter spares kit 
AZ200 746	Test gas injection pipe spares kit 
AZ200 600 AZ200601 AZ200602 AZ200603 AZ200604 AZ200605 AZ200606 AZ200607	Flange (for bypass system): <ul style="list-style-type: none"> <li>• 3 in ANSI 600 mm probe</li> <li>• 3 in ANSI 900 mm probe</li> <li>• 4 in ANSI 600 mm probe</li> <li>• 4 in ANSI 900 mm probe</li> <li>• DN80 600 mm probe</li> <li>• DN80 900 mm probe</li> <li>• DN100 600 mm probe</li> <li>• DN100 900 mm probe</li> </ul> 

## Accessories

Part number	Description	
AZ200 731 AZ200 732	Coalescing filter-regulator* <ul style="list-style-type: none"> <li>• ¼ NPT 5 µm</li> <li>• ¼ BSP 5 µm</li> </ul> *Required for reference and test gas air	
AZ200 740 AZ200 741	Filter elements for pre-June 2013 regulator: <ul style="list-style-type: none"> <li>• 5µm filter element</li> <li>• Oil coalescing filter element</li> </ul>	
AZ200 742 AZ200 743	Filter elements for post-June 2013 regulator <ul style="list-style-type: none"> <li>• 5µm filter cartridge</li> <li>• Oil coalescing filter cartridge</li> </ul>	
AZ200 770 AZ200 771 AZ200 772 AZ200 773	ABB reference air pump <ul style="list-style-type: none"> <li>• ¼ BSP (metric) 230 V AC 50/60 Hz</li> <li>• ¼ BSP (metric) 115 V AC 50/60 Hz</li> <li>• ¼ NPT (imperial) 230 V AC 50/60 Hz</li> <li>• ¼ NPT (imperial) 115 V AC 50/60 Hz</li> </ul>	
AZ200 798 AZ200 799	Probe tool kit* NPT (AZ20) BSP (AZ20) *Included with probe as standard	
Application dependant – see page 25 for part numbers	ABB flowmeter	
AZ200 785	USB to IrDA adaptor kit	
AZ200 735	Filter dust shield	
AZ200 736	Probe body erosion shield	