



Where Intelligence Meets Infrastructure™

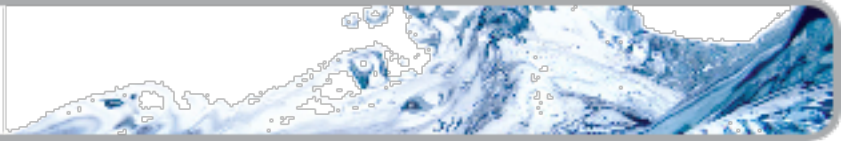
# Disassembly Instructions

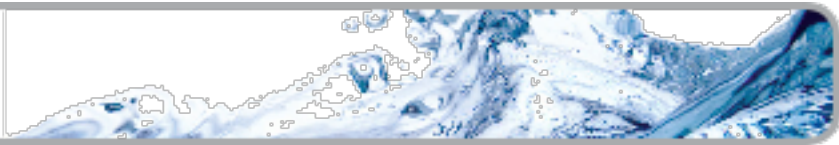
## Solid State Meter (SSM)

*Document version 1.0*

*November 2017*







Contents

Purpose ..... 3

Scope ..... 3

Process Description ..... 4

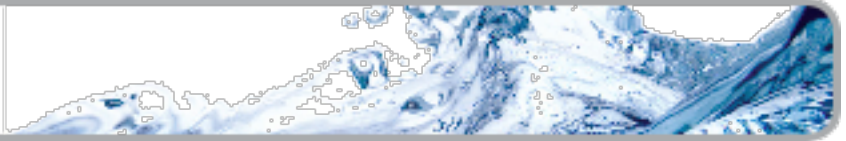
Product Description ..... 5

Purpose

Describe disassembly of an SSM meter with the goal of identifying recyclable materials.

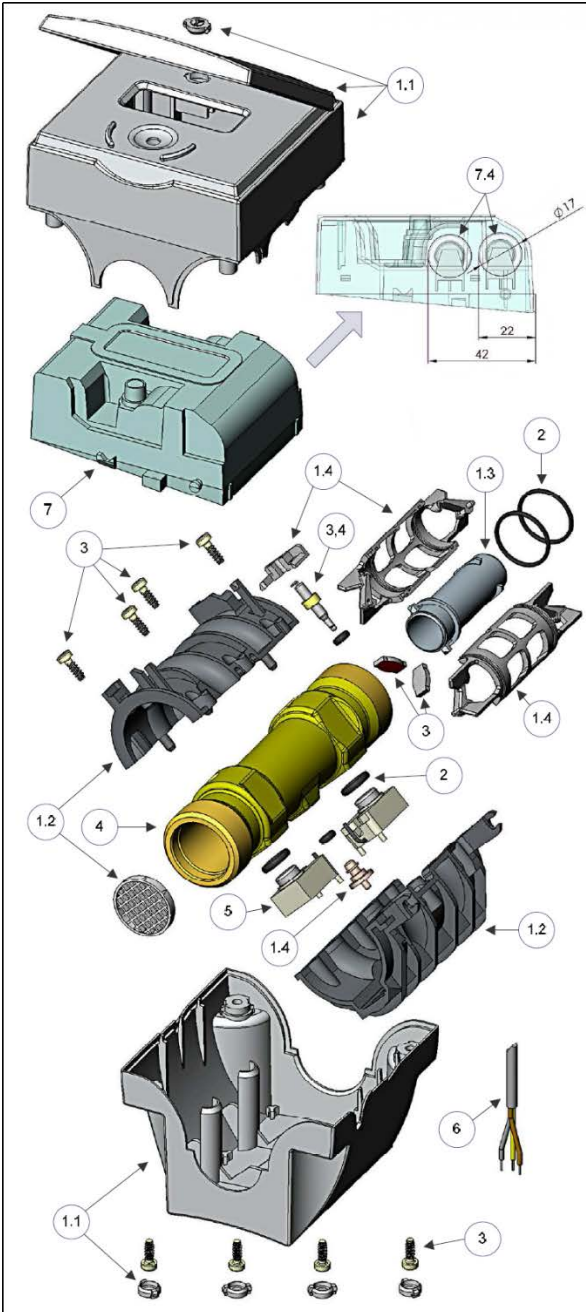
Scope

Applicable to Mueller Systems SSM meter.



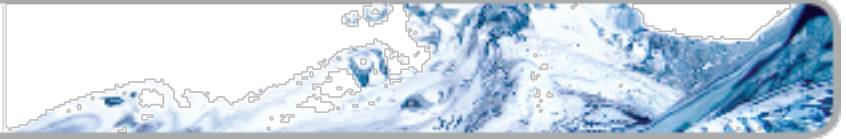
## Process Description

### Recycling Pass End-of-Life Card






<b>1</b>	<b>Thermoplastics</b>	<b>Σ = 7.34 oz. (208 g)</b>
1.1	PBT+ASA/ASA/PP/PA12	5.33 oz. (151 g)
1.2	PPO GF*	1.62 oz. (46 g)
1.3	PES	0.11 oz. (3 g)
1.4	PES GF*/PPS GF*	0.28 oz. (8 g)
<b>2</b>	<b>EPDM</b>	<b>Σ = 0.035 oz. (1 g)</b>
<b>3</b>	<b>Stainless steel</b>	<b>Σ = 0.07 oz. (2 g)</b>
<b>4</b>	<b>Brass</b>	<b>Σ = 9.35 oz. – 17.64 oz. (265 g-500 g)</b>
<b>5</b>	<b>Potted transducer</b>	<b>Σ = 0.211 oz. (6 g)</b>
5.1	Stainless steel	0.035 oz. (1 g)
5.2	PU	0.035 oz. (1 g)
5.3	PZT (piezo ceramic)	0.035 oz. (1 g)
5.4	PES GF*/PPS GF*	0.106 oz. (3 g)
<b>6</b>	<b>Cable/Wires</b>	<b>Σ = 0.035 oz. – 1.376 oz. (1 g – 39 g)</b>
<b>7</b>	<b>Potted electronics</b>	<b>Σ = 6.91 oz. – 8.29 oz. (196 g – 235 g)</b>
7.1	PC	.99 oz. (28 g)
7.2	PU-resin	3.63 oz. – 4.20 oz. (103 g - 119 g)
7.3	Printed circuit board with FR4	1.48 oz. (42 g)
7.4	Lithium-thionyl chloride battery (Li-SOCl <sub>2</sub> primary cell)	0.81 oz. – 1.62 oz. (23 g - 46 g)
<b>8</b>	<b>Paper, wood pulp</b>	<b>Σ = 5.33 oz. (151 g)</b>
8.1	Packaging	4.41 oz. (125 g)
8.2	Product description	0.92 oz. (26 g)

\*Glass-fiber reinforced

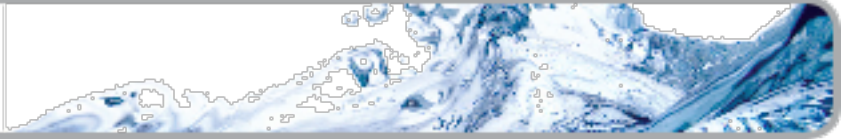








### Product Description

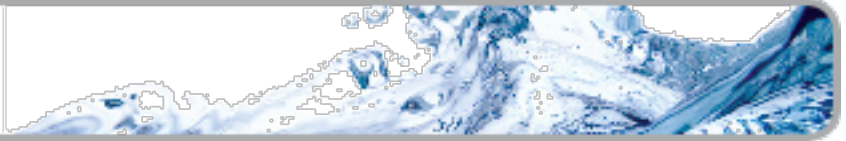
Some plastic and stainless steel parts can be recycled. Electronic components and batteries are potted and require special treatment. See your local recycling requirements for proper disposal instructions.



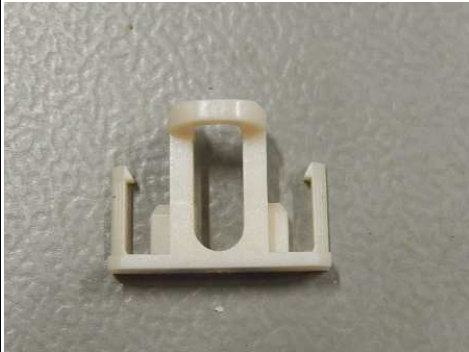
Step	SSM disassembly instruction	Result of disassembly for recycling or disposal (Refer to the number in the drawing above)
1	<p>To begin disassembling the SSM, gather appropriate tools such as pliers and screwdrivers.</p> 	
2	<p>Turn the meter upside down and remove the four plastic seals on the screws with a screw driver.</p> 	<p>Four plastic seals (# 1.1) for disposal</p> 

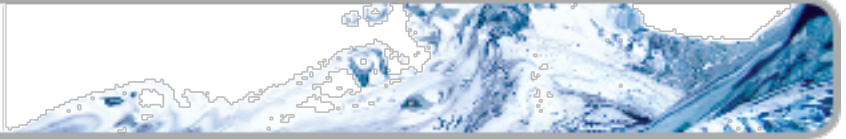









3	<p>Remove the four screws with a screwdriver.</p> 	<p>Four stainless steel screws (# 3) for recycling</p> 
4	<p>Remove the two seals on the sides of the meter.</p> 	<p>Two seals for disposal</p> 
5	<p>Dismantle the plastic body by removing the upper part by hand.</p> 	<p>Two plastic bodies (# 1.1) for disposal</p> 

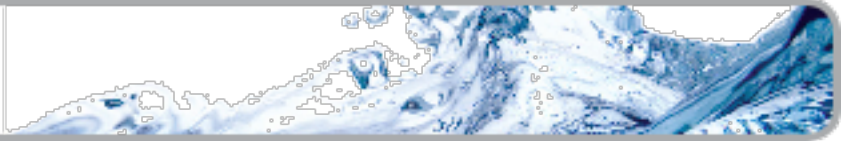



6	Place the potted electronics to the side.	
		
7	Remove the plastic clip.	One plastic clip (# 1.4) for disposal
		

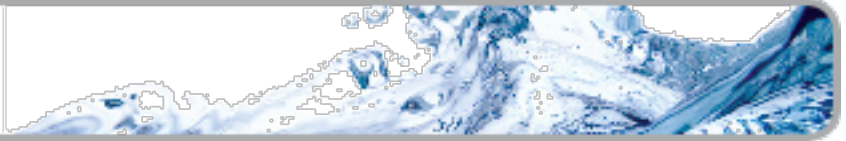


<p>8</p>	<p>Cut the cables from the potted electronics.</p> 	<p>Two cables (# 6) for recycling</p>  <p>One potted electronic module including battery (# 7) for disposal</p> 
<p>9</p>	<p>Remove the four screws with a screwdriver.</p> 	<p>Four stainless steel screws (# 3) for recycling</p> 

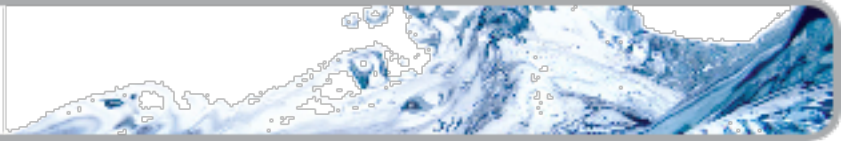




10	<p>Remove the O-rings and the plastic cover from the brass body.</p> 	<p>Three O-rings and one plastic part (#1.4, #2) for disposal</p> 
11	<p>Remove the potted transducers from the plastic frame.</p> 	<p>Two plastic bodies (#1.2) for disposal</p> 
12	<p>Cut off the cables of the transducers.</p> 	<p>Two cables (# 6) for recycling</p>  <p>Two potted transducers (#5) for disposal</p> 



13	Remove the strainer from the brass body with a screwdriver.	One plastic strainer (#1.2) for disposal
		
14	Remove the measurement insertion from the brass body.	One brass body (#4) for recycling
		
15	Remove the two O-rings of the measurement insertion.	Two plastic O-rings (# 2) for disposal
		



16

Dismantle the measurement insertion.



Two plastic bodies (#1.4) and one plastic cylinder (#1.3) for disposal



Two stainless steel mirrors (#3) for recycling

